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THE AMERICAN UNIVERSITY

CATALOGUE ISSUE 1953-1956

BULLETIN

WASHINGTON, DISTRICT OF COLUMBIA

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BULLETIN
CATALOGUE ISSUE

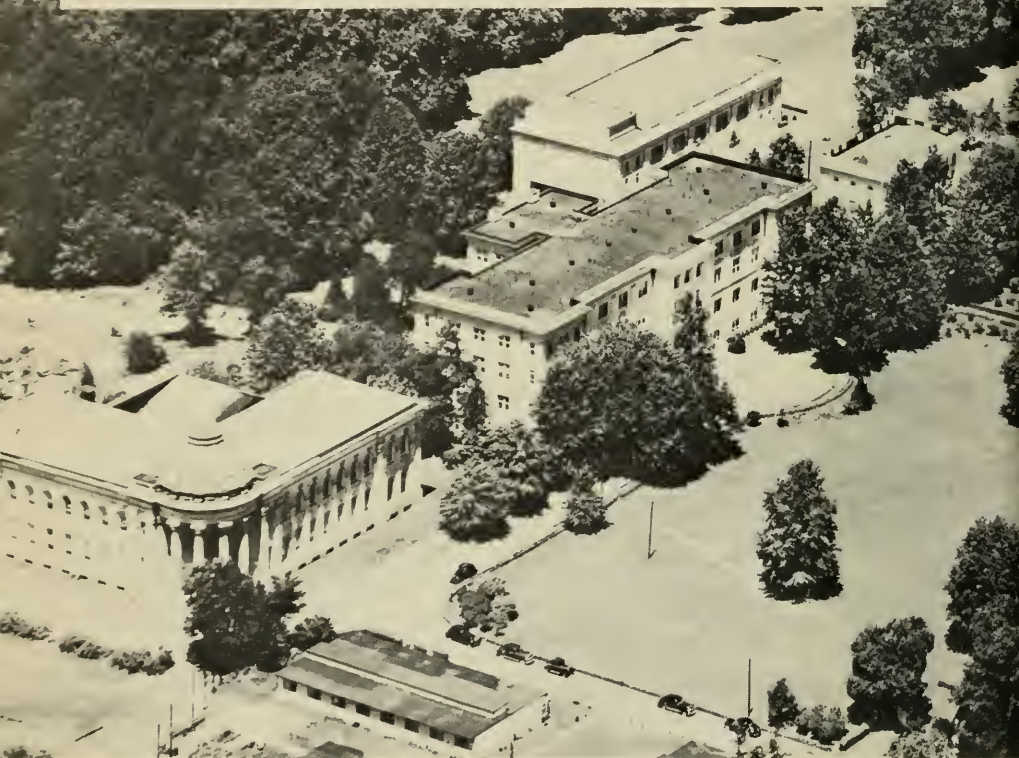
1953 - 1956

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THE AMERICAN UNIVERSITY
WASHINGTON, DISTRICT OF COLUMBIA

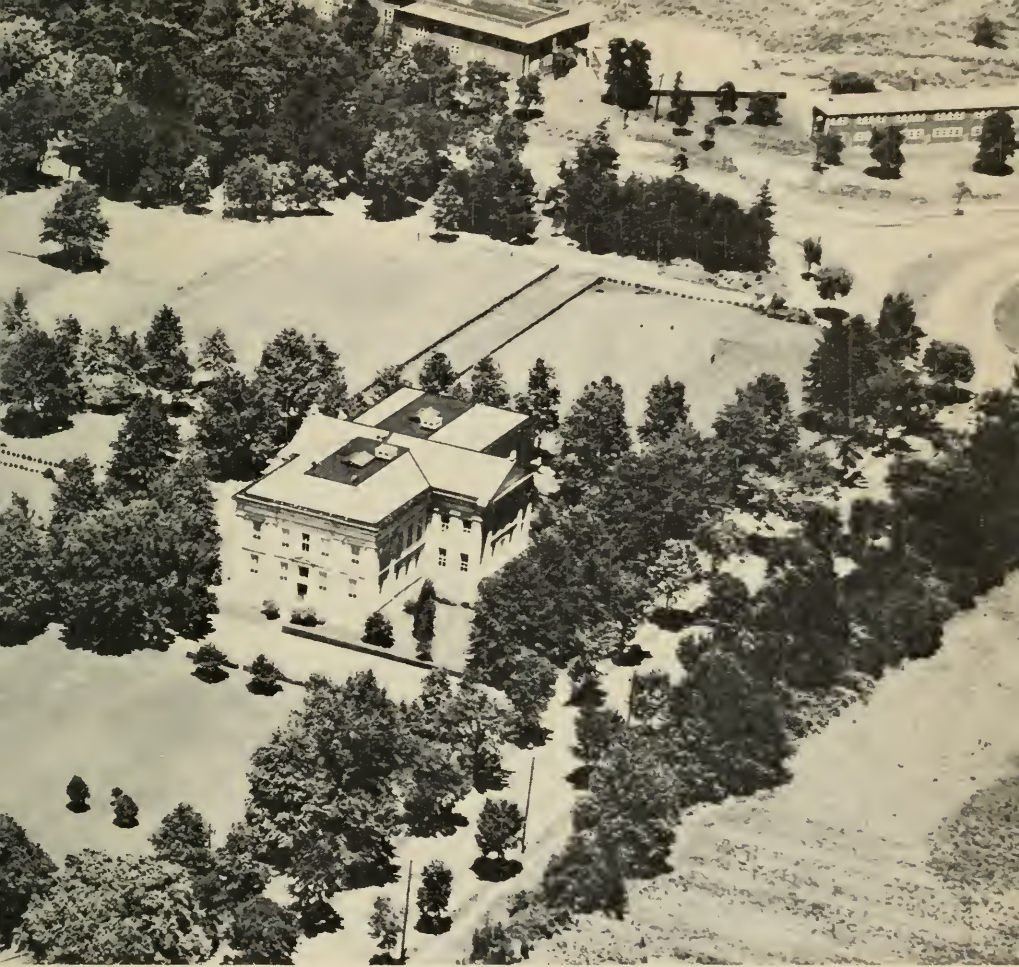
Applications are accepted for admission during any session (Summer, Fall, Spring). Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., or 1905 F Street, N.W. Inquiries concerning admission to the Washington College of Law may be addressed to the Dean of the College, 2000 G Street, N.W.

Chartered by Congress in 1893, The American University is accredited by the Middle States Association of Colleges and Secondary Schools and the University Senate of The Methodist Church. The University is a member of the Association of American Colleges, the Association of Urban Universities, the Association of University Evening Colleges, and the National Intercollegiate Athletic Association.



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1988

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1988

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UNIVERSITY CALENDAR

1953-1956

The academic program of The American University is based upon a tri-mester program. Sequences of courses are planned so as to permit students immediately upon graduation from secondary school to begin their degree programs in any of the university sessions—Fall, Spring, or Summer. Students graduating from some other college or university, who wish to enroll in the Graduate School of The American University, may also take advantage of the tri-mester program.

Students are expected to familiarize themselves with all calendar dates that affect their own courses of study. The calendar lists specific times at which certain University requirements must be met. Awareness of deadline dates will enable students to prepare themselves properly in order to achieve their objectives.

Since the detailed calendar following is subject to change, all students should consult the academic calendars which appear in the course announcements published prior to the opening of each session.

FALL SESSION

1953 - 1954

OCTOBER 1

Fall session classes begin.
Final date for removal of incomplete grades for the 1953 Spring session.

OCTOBER 8

Final date for application for Fall comprehensive examinations.

NOVEMBER 2

Final date for applications for Fall graduate tool examinations.
Final date for removal of incomplete grades for the 1953 Summer session.
Final date for applications for degrees to be awarded at the 1954 Commencement.

NOVEMBER 11

Armistice Day—not a University holiday.

NOVEMBER 16

Final date for submission of thesis proposals for advanced degrees to be awarded at the 1954 Commencement.

NOVEMBER 16-25

Fall comprehensive examinations for advanced degrees.

NOVEMBER 26-29

Thanksgiving holidays.

DECEMBER 4

Final date for approval of thesis proposals for advanced degrees to be awarded at the 1954 Commencement.

DECEMBER 7-12

Fall graduate tool examinations.

DECEMBER 19

Last meeting of classes prior to Christmas holidays.

DECEMBER 21-JANUARY 3

Christmas holidays.

JANUARY 4

Classes resume.

FEBRUARY 1-6

Final examinations in Fall session classes.

SPRING SESSION

1954

FEBRUARY 8-13

Registration for Spring session.

FEBRUARY 15

Spring session classes begin.

FEBRUARY 19

Final date for applications for Spring comprehensive examinations.

FEBRUARY 22

Washington's Birthday—a University holiday. Monday evening classes will make up this meeting on Wednesday, April 21.

FEBRUARY 24

Founders Day—not a University holiday.

MARCH 15

Final date for submission of theses by candidates for advanced degrees at the 1954 Commencement.

APRIL 12

Final date for applications for Spring graduate tool examinations.

APRIL 15-21

Spring vacation except in the Washington College of Law.

APRIL 26-MAY 5

Spring comprehensive examinations for advanced degrees.

MAY 7

Final date for oral examinations on theses of candidates for advanced degrees at the 1954 Commencement.

MAY 8-15

Spring graduate tool examinations.

MAY 27

Final date for submission of approved copies of theses by candidates for advanced degrees at the 1954 Commencement.

MAY 27-29

Final examinations in Spring session classes for candidates for degrees at the 1954 Commencement, except at the Washington College of Law.

MAY 31

Memorial Day—not a University holiday.

JUNE 1-11

Final examinations in Spring session classes at the Washington College of Law.

JUNE 7-12

Final examinations in Spring session classes except at the Washington College of Law.

JUNE 13

Commencement.

SUMMER SESSION DATES TO BE ANNOUNCED

FALL SESSION

1954 - 1955

- SEPTEMBER 15-22
Registration for Fall session.
- SEPTEMBER 23
Fall session classes begin.
- OCTOBER 1
Final date for removal of incomplete grades for the 1954 Spring session.
- OCTOBER 11
Final date for applications for Fall comprehensive examinations.
- NOVEMBER 1
Final date for applications for Fall graduate tool examinations.
Final date for applications for degrees to be awarded at the 1955 Commencement.
Final date for removal of incomplete grades for the 1954 Summer session.
- NOVEMBER 11
Armistice Day—not a University holiday.
- NOVEMBER 25-27
Thanksgiving holidays.
- DECEMBER 1-10
Fall comprehensive examinations for advanced degrees.
- DECEMBER 17
Final date for submission of thesis proposals for advanced degrees to be awarded at the 1955 Commencement.
- DECEMBER 19
Last meeting of classes prior to Christmas holidays.
- DECEMBER 20-JANUARY 2
Christmas holidays.
- JANUARY 3
Classes resume.
- JANUARY 10-15
Fall graduate tool examinations.
- JANUARY 31-FEBRUARY 5
Final examinations in Fall session classes.

SPRING SESSION

1955

- FEBRUARY 7-12
Registration for Spring session.
- FEBRUARY 14
Spring session classes begin.
- FEBRUARY 22
Washington's Birthday—a University holiday.
- FEBRUARY 25
Final date for application for Spring comprehensive examinations.
- FEBRUARY 24
Founders Day—not a University holiday.
- MARCH 14
Final date for submission of theses by candidates who expect to receive advanced degrees at the 1955 Commencement.
- APRIL 6-9
Spring vacation except in the Washington College of Law.
- APRIL 14
Final date for applications for Spring graduate tool examinations.
- APRIL 25-MAY 4
Spring comprehensive examinations for advanced degrees.
- MAY 6
Final date for oral examinations on theses of candidates for advanced degrees at the 1955 Commencement.
- MAY 16-21
Spring graduate tool examinations.
- MAY 26
Final date for submission of approved copies of theses by candidates for advanced degrees at the 1955 Commencement.
- MAY 26-28
Final examinations in Spring session classes for candidates for degrees at the 1955 Commencement except at the Washington College of Law.
- MAY 30
Memorial Day—a University holiday.
- MAY 31-JUNE 10
Final examinations in Spring session classes at the Washington College of Law.
- JUNE 6-11
Final examinations in Spring session classes except at the Washington College of Law.
- JUNE 12
Commencement.

SUMMER SESSION DATES TO BE ANNOUNCED

FALL SESSION

1955 - 1956

SEPTEMBER 15-21

Registration for Fall session.

SEPTEMBER 22

Fall session classes begin.

OCTOBER 1

Final date for removal of incomplete grades for the 1955 Spring session.

OCTOBER 10

Final date for applications for Fall comprehensive examinations.

NOVEMBER 1

Final date for application for Fall graduate tool examination.

Final date for applications for degrees to be awarded at the 1956 Commencement.

Final date for removal of incomplete grades for the 1955 Summer session.

NOVEMBER 11

Armistice Day—a University holiday.
(November 12 will also be a University holiday.)

NOVEMBER 14

Final date for submission of thesis proposals for advanced degrees to be awarded at the 1956 Commencement.

NOVEMBER 24-27

Thanksgiving holidays.

NOVEMBER 30-DECEMBER 9

Fall comprehensive examinations for advanced degrees.

DECEMBER 21

Last meeting of classes prior to Christmas holidays.

DECEMBER 22-JANUARY 4

Christmas holidays.

JANUARY 5

Classes resume.

JANUARY 9-13

Fall graduate tool examinations.

JANUARY 23-28

Final examinations in Fall session classes.

SPRING SESSION

1956

JANUARY 30-FEBRUARY 4

Registration for Spring session.

FEBRUARY 6

Spring session classes begin.

FEBRUARY 10

Final date for applications for Spring comprehensive examinations.

FEBRUARY 22

Washington's Birthday—a University holiday except for evening classes, which will meet as usual.

FEBRUARY 24

Founders Day—not a University holiday.

MARCH 29-APRIL 3

Spring vacation except at the Washington College of Law.

APRIL 23-MAY 2

Spring comprehensive examinations for advanced degrees.

APRIL 27

Final date for applications for Spring graduate tool examinations.

Final date for oral examinations on theses of candidates for advanced degrees at the 1956 Commencement.

MAY 7-11

Spring graduate tool examinations.

MAY 21

Final date for submission of approved copies of theses by candidates for advanced degrees at the 1956 Commencement.

Final examinations in Spring session classes at the Washington College of Law begin.

MAY 23

Final examinations in Spring classes meeting on Wednesday evenings only.

MAY 28-29 and MAY 31-JUNE 2

Final examinations in Spring session classes except at the Washington College of Law.

MAY 30

Memorial Day—a University holiday.

JUNE 3

Commencement.

SUMMER SESSION DATES TO BE ANNOUNCED





ACADEMIC ADMINISTRATION

Office of the President

HURST R. ANDERSON, B.A., M.S., LL.D. *President*

Offices of the Deans

DONALD DERBY, B.A., M.A., Ph.D. *Dean of Administration*

HAROLD E. DAVIS, B.A., M.A., Ph.D. *Dean of the Undergraduate College*

DAVID R. BOOKSTAVEN, B.A., LL.B. *Dean of the Washington College of Law*

PITMAN B. POTTER, B.A., M.A., Ph.D. *Dean of the Graduate School*

ERNST POSNER, Ph.D. *Dean of the School of Social Sciences and Public Affairs*

AUSTIN VAN DER SLICE, B.A., M.A., Ph.D. *Associate Dean of the Undergraduate College*

MARY E. BRADSHAW, B.A., M.A., Ph.D. *Associate Dean of the Graduate School*

Office of Student Personnel

JOHN E. BENTLEY, M.A., S.T.B., M.R.E., Th.D. *Dean Emeritus and Director of Student Relations*

MARGUERITE M. SHAW, B.A., M.A. *Associate Dean of Students*

RALPH C. JOHN, B.A., S.T.B., S.T.M., Ph.D. *University Chaplain*

ERNST CORRELL, Dr. oec. publ. *Advisor to Foreign Students*

Office of the Librarian

ANNE JENSEN, B.S. in L.S. *University Librarian*

ELIZABETH CUBBERLY, LL.B. *Librarian of the Washington College of Law*

Office of the Registrar

HAZEL FEAGANS, B.A., B.E., M.A. *University Registrar*

GLADYS B. MIDDLEMISS *Registrar of the Washington College of Law*

Office of the University Physician

JAMES E. CHAPMAN, M.D. *University Physician and Director of the Health Service*

Office of the Assistant to the President

STAFFORD H. CASSELL, B.A., B.S., M.A. *Assistant to the President*

LOIS TORRENCE, B.A., M.A. *Director of Admissions*

ROBERT W. JONES, B.S. *Admissions Counselor*

JOHN WAKEFIELD, B.S. *Admissions Counselor*

DONALD W. OSTEN, B.A., M.A. *Director of Publicity*

MARCIA E. WINGO, B.A. *Assistant for Alumni Affairs*

Office of University Development

CLYDE W. MEREDITH, B.A., B.D., Th.M., Th.D. *Vice President for University Development*

DAYTON E. MCCLAIN, B.A., M.A., S.T.B., Ph.D. *Vice President for Financial Promotion*

Office of Financial and Business Affairs

WILLIAM O. NICHOLLS, B.A., M.B.A. *Director of Financial and Business Affairs and Treasurer of the University*

Research and Service Activities

ROBERT T. BOWER, B.A. *Director of the Bureau of Social Science Research*

ALVA L. DAVIS, B.A., M.A., Ph.D. *Director of the American Language Center*

PATRICK HAYES *Managing Director of The American University Concerts*

LUDWIG M. HOMBERGER, Dr. jur. et rer. pol. *Director of the Division of Professional Institutes*

Administrative appointments listed are those in effect during 1953-1954.



YESTERDAY

An Historical Sketch of The American University

The American University was chartered by an Act of the Congress of the United States on February 24, 1893. A firm conviction existed in the minds of many prominent men that there was need for a protestant-related university in the nation's capital. Religious leaders, educators, statesmen, industry heads, and others worked together for a common ideal — the establishment of a university open to men of all faiths, which would emphasize the commitment of each individual to the creative potential inherent in a free society.

Bishop John Fletcher Hurst of the Methodist Church, one of the key figures in the university movement, selected the site of Fort Gaines as the location of the 75-acre uptown campus. This historic area, splendidly situated on one of the highest points in Washington, served as one of the major defenses of the District of Columbia during the Civil War.

On May 14, 1914, President Woodrow Wilson formally dedicated The American University Graduate School. Development was rapid, and in 1919 and 1920, the Downtown Center in the heart of Metropolitan Washington was added to the University properties.

TODAY A New Era in University History

Out of the experience of the past the pattern and the program of the present have emerged. The College of Liberal Arts, established in 1925 to provide instruction at the undergraduate level, has since become the Undergraduate College. The graduate programs of the University have been merged in the Graduate School. Invaluable evening programs also have been instituted, serving government and non-government workers in the greater Washington area. These are offered by the School of Social Sciences and Public Affairs, the University's Evening Division. Another milestone was reached in 1949 when the Washington College of Law was merged with The American University.

At no time in the history of the University has there been greater clarity of purpose or a more vigorous enthusiasm for the future. This new spirit pervades not only The American University, but its supporting churches and its independent constituency as well. Plans for the future embrace a continuous improvement of program, expansion of facilities, and the addition of other schools or colleges as occasion may make appropriate.



the many advantages of
STUDY IN A GREAT
WORLD CAPITAL



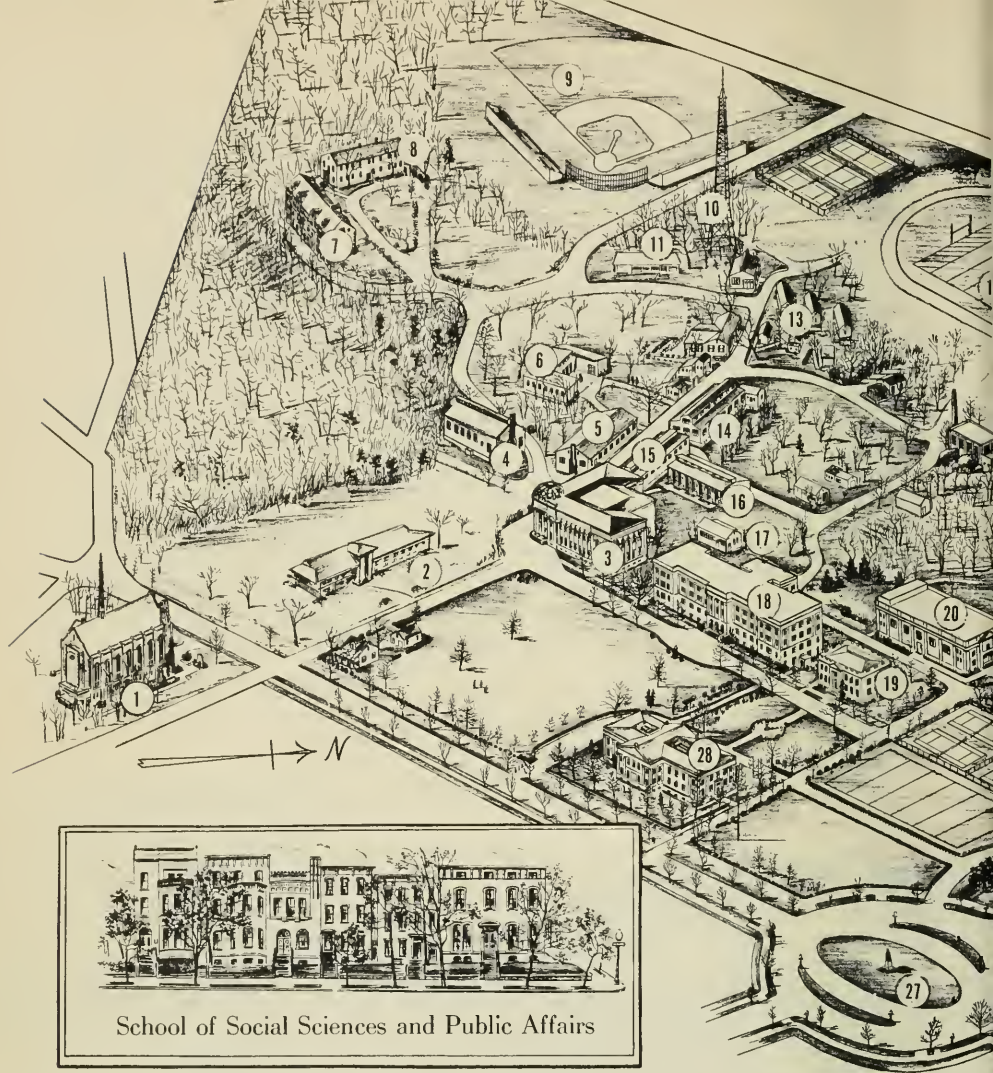
At The American University students are brought into close and intimate contact with the forces, events, and personalities involved in shaping the course of both national and international events.

Washington is a living educational laboratory where world events and students meet. All the elements of domestic and foreign policy converge in the nation's capital, the political, economic, and cultural focal point of the free world.

It is the aim of the University to prepare its students not only for professional competence but also for their roles as informed, active citizens in a free, democratic society.

The programs of The American University are designed to take advantage of the unparalleled resources of the nation's capital and to provide at the same time broad curricula on the undergraduate, graduate, and professional levels.



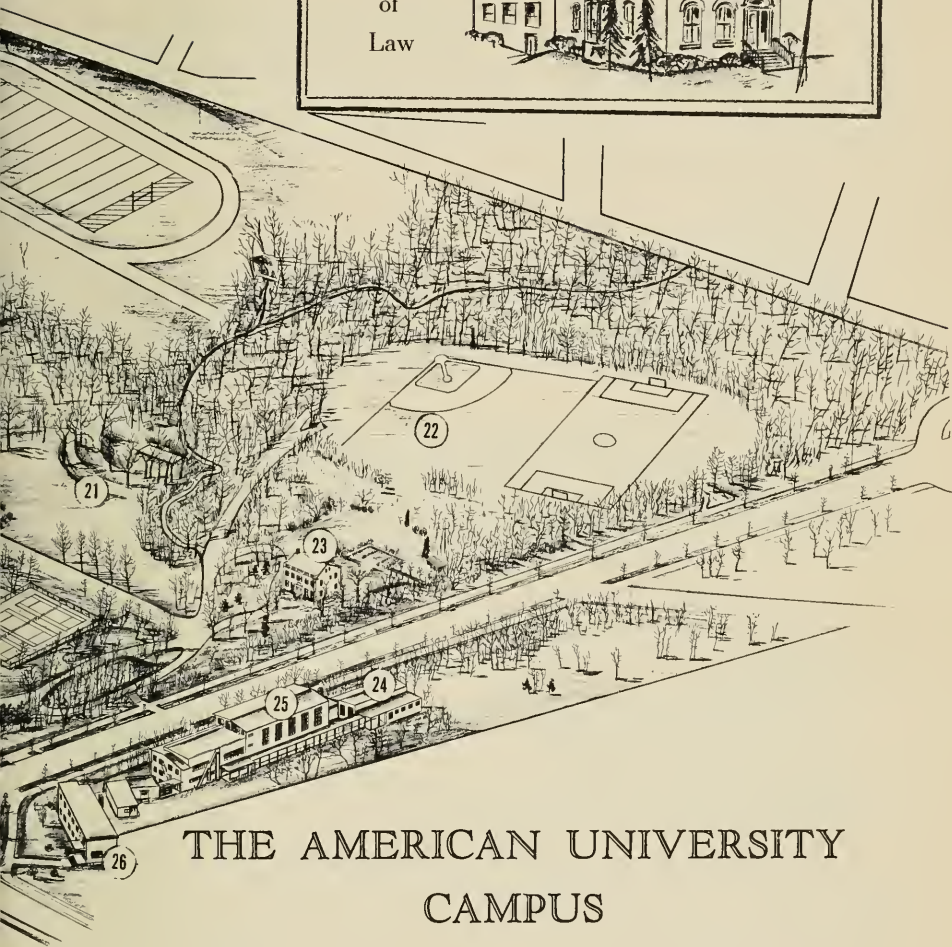


School of Social Sciences and Public Affairs

MAP KEY

- | | |
|--|----------------------------------|
| 1. Metropolitan Memorial Methodist Church | 14. Roper Studio |
| 2. Site of new dormitories | 15. & 16. Veterans Apartments |
| 3. McKinley Hall | 17. Physics Laboratory |
| 4. Hutchins House | 18. Mary Graydon Hall |
| 5. McCabe House | 19. Battelle Memorial Library |
| 6. Watkins Art Gallery | 20. Clendenen Hall |
| 7. Hamilton House | 21. Shakespearean Grotto Theater |
| 8. Clark House | 22. Old Athletic Field |
| 9. Baseball Field | 23. President's Residence |
| 10. WMAL Television Tower and Transmitter Building | 24. Swimming Pool |
| 11. Site of New Radio-TV Building | 25. Leonard Center & Gymnasium |
| 12. New Athletic Field | 26. Roper House |
| 13. Music Department Buildings | 27. Ward Circle |
| | 28. Hurst Hall |

Washington
College
of
Law



THE AMERICAN UNIVERSITY CAMPUS

Facilities of the University are located on the Uptown Campus at Massachusetts and Nebraska Avenues and at the Downtown Center, which includes buildings between 19th and 20th Streets on F Street and at 2000 G Street. The Uptown Campus houses the administrative offices of the University and of the Undergraduate College and also the University residence halls. The Downtown Center houses the administrative offices of the Washington College of Law, the Graduate School, and the School of Social Sciences and Public Affairs.

UPTOWN CAMPUS

The original campus of the University, acquired in 1891, is located on the highest hilltop in northwest Washington. The 75-acre campus has the quiet atmosphere traditionally associated with colleges and universities located far from metropolitan centers but it is only 20 minutes by public transportation to the heart of downtown Washington. Buildings located on the Uptown Campus include:



Hurst Hall (1898)

A three-story Vermont marble structure of Ionic architecture, named to honor Bishop John Fletcher Hurst. Hurst Hall contains the administrative offices of the University, classrooms and laboratories, and faculty offices. The *Daniel C. Roper Carillon* (1946) a gift in memory of Daniel Calhoun Roper, is in this building.



Mary Graydon Hall (1925)

A four-story white-stone residence hall for women named to honor Mary Graydon, a great benefactress of the University. The University Health Service offices are on the main floor and on the first floor are located the University dining room, a snack bar, and the student bookstore for the Uptown Campus.



McKinley Hall (1917)

A three-story Vermont marble structure named to honor William McKinley, 25th president of the United States.



President's Residence (1925)

A colonial-type home occupying a high spot on the Massachusetts Avenue side of the campus.



Clendenen Gymnasium (1926)

Named to honor Patrick Clendenen, a benefactor of the University, this building is the center of physical education and recreation activities for women. The Gymnasium is also used for dramatic productions and musical performances.



Battelle Memorial Hall (1926)

A three-story white-stone building named to honor Gordon E. Battelle, whose gift it was. Battelle Memorial Hall houses the library collection of the University on the Uptown Campus.



Hamilton House (1930)

A three-story gothic fieldstone residence hall for men named to honor Bishop John W. Hamilton and Bishop Franklin Hamilton, formerly chancellors of the University. Supplementing the facilities of Hamilton House are the temporary dormitories, Clark, McCabe and Hutchins.

DOWNTOWN CENTER

The buildings on F Street, between 19th and 20th Streets house the administrative offices of the Graduate School and the School of Social Sciences and Public Affairs, as well as classrooms, the student bookstore for the Downtown Center, and the Downtown branch of the University Library. The building at 2000 G Street houses the administrative offices of the Washington College of Law, and also contains classrooms and the specialized law library of the University.

(Uptown Campus Continued)



Leonard Student Center (1943)

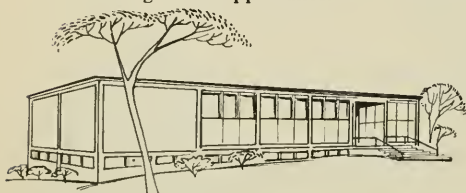
A large building on the campus east of Massachusetts Avenue which serves as the center for physical education and recreation activities for men and includes a gymnasium, swimming pool, bowling alleys, the athletic offices of the University, and the offices of student associations and groups.

NEW CONSTRUCTION



Dormitories

Present plans anticipate the completion of three new units by the beginning of the 1954 academic year. Two new dormitories have been authorized to provide housing for slightly more than 100 additional resident students. The new dormitories represent the first units of a proposed new dormitory quadrangle, which when completed will consist of several other buildings similar in design and appearance.



TV-Radio Building

Ground-breaking ceremonies were held on December 2, 1953, for a building housing complete television and radio laboratories. In addition to both television and radio studios, this new building will contain seminar and meeting rooms and faculty offices, and will be known as The Evening Star TV-Radio Building.

In addition to the six Social Sciences and Public Affairs buildings on F Street and the College of Law building on G Street, the Downtown Center also includes the classrooms and offices of the American Language Center at 1729 F Street, and the offices and research facilities of the Bureau of Social Science Research and the International Population Union at 1710 Connecticut Avenue.

LIBRARY FACILITIES

The University Library operates as a function of the educational program and maintains general and specialized collections on the Uptown Campus and at the Downtown Center, in addition to the special library of the Washington College of Law. The University library collection includes 158,096 volumes as well as maps, manuscripts, documents, and phonograph recordings. The library staff issues two publications, one a bulletin of information about new books and events relating to the library, the other a handbook on the use of libraries for students.

The University Library at the Uptown Campus is housed in Battelle Memorial Hall and consists of approximately 70,500 books, pamphlets, documents, and recordings. The Uptown Campus library building contains open stacks and reading rooms, and is equipped with special music listening rooms.

The Downtown Center Library is located at 1907-1911 F Street, N.W. and contains approximately 69,435 books, maps, pamphlets, and documents. This library specializes in literature of the social sciences.

The library of the Washington College of Law, at 2000 G Street, N.W. contains over 21,000 volumes including the United States Statutes, the decisions of the Supreme Court and the lower federal courts and administrative tribunals, the codes of federal and local laws, early state reports, and legal periodicals.

The Library collection has been enriched by several gifts of which the following are outstanding:

American Peace Society Library

This collection established by the American Peace Society is on deposit with the University and is housed in Hurst Hall. It contains approximately 10,000 volumes.

Bradley Collection

A specialized library of 800 volumes in French and Spanish devoted chiefly to the history of the Caribbean area and of France in the 18th and 19th centuries, housed on the Uptown Campus.

League of Nations Information Service Library

A collection of more than 10,000 documents and publications of the League of Nations developed and donated by the late Kate Trenholm Abrams. It is housed in the Downtown Center library.

Artemas Martin Mathematical Library

A collection of approximately 5,000 rare volumes and manuscripts in the field of mathematics and mathematical instruction, housed in the offices of the department of mathematics, in Hurst Hall.

Mrs. Parmalee Prentice Gift

A collection of approximately 500 phonograph records and 200 musical scores given by Mrs. Parmalee Prentice, who also provided equipment for the University's listening rooms. This collection is in the Uptown Campus library.

James Brown Scott Library

A collection of volumes in the field of international and comparative law, donated by Dr. James Brown Scott and housed in the library of the Washington College of Law.

Watumull Foundation Collection

A collection of books on India given to the University through the generosity of Mr. and Mrs. Gobindram S. Watumull of Los Angeles and Hawaii. The collection is in the Downtown Center library.

Teaching Institute of Economics Library

A collection of books on economics assembled during 1945-1950 and purchased from grants from the Alfred P. Sloan Foundation. The library is integrated in the general collection at the Downtown Center.

LIBRARY ENDOWMENTS

Several endowments and funds have been established to benefit the Library. They include:

L. M. Alexander Endowment

A fund for the purchase of books in the field of economics.

Osborn Fund

Established by Mrs. Irving McCathran, Mrs. Harry Farmer, and Mrs. James Sappington, daughters of Dr. Albert Osborn, co-founder, librarian, registrar, historian, and secretary to the Board of Trustees of the University for more than 50 years, to honor their father. The Fund was established to assist in equipping the reading room in the Uptown Campus library.

I. Thomas McKillop Fund

Established by his classmates to honor the late I. Thomas McKillop and to provide funds for purchase of books on public administration.

Agnes and Eugene Meyer Foundation

An annual grant for the purchase of books in the field of art education established by the Agnes and Eugene E. Meyer Foundation.

The classes of 1936, 1938, 1942, and 1949 have donated funds for the purchase of books and the class of 1936 established the Golder browsing collection to honor the late Professor Harold Golder.





The experience of The American University demonstrates the possibility of combining the advantages of a large university with the spirit and personalized emphasis of the smaller college. From the freshman's first contact with the Undergraduate College to the doctoral candidate's final work on his thesis, faculty members place the individual student at the center of the educational process. This has been the deliberate objective of the University.

ORGANIZATION OF THE UNIVERSITY UNDERGRADUATE COLLEGE

The program of the Undergraduate College has been planned for students who desire either a two-year course leading to an associate degree or the conventional four-year course leading to the bachelor's degree. All students complete a specified number of hours of work in the humanities, the natural sciences, and the social sciences, which may be taken in any sequence and which are designed to further their general education for today's living. The two-year associate program is completed by selecting additional courses in the student's field of special or vocational interest. The four-year bachelor's program requires that each student complete a well-balanced series of advanced courses in his major field of study. Elective courses provide the opportunity to supplement and round out educational experiences of both the two-year and the four-year degree candidate. Students of the Undergraduate College may enroll in combined degree programs leading to the bachelor's degree and to either a law degree from the Washington College of Law or to a master's degree from the Graduate School.

WASHINGTON COLLEGE OF LAW

The Washington College of Law was founded in 1896 and became a part of The American University in 1949. The College offers programs leading to the degree of Bachelor of Laws designed to equip students for the bar examination, to practice the profession of law, or to undertake careers in private business or government service in which a knowledge of the law is a necessary or desirable asset. The Washington College of Law is a member of the Association of American Law Schools and is approved by the Council of Legal Education of the American Bar Association.

GRADUATE SCHOOL

The American University was established as an institution devoted exclusively to graduate study and research. As the heir to this basic tradition the Graduate School has enjoyed a unique success in meeting the challenge of service at the highest academic level in the nation's capital and in training men and women for outstanding positions in national, international, and business affairs as well as for the academic world. The School offers programs leading to the degree of Master of Business Administration and to the degrees of Master of Arts and Doctor of Philosophy in the following fields: Communication (Master of Arts only), Economics, Economic History, Education (Master of Arts only), Guidance and Counseling (Master of Arts only), History, International Relations and Organization, Mathematics, Political Science, Psychology, Public Administration, Sociology, and Statistics.

SCHOOL OF SOCIAL SCIENCES AND PUBLIC AFFAIRS

The School of Social Sciences and Public Affairs, the evening division of the University, offers a comprehensive program of undergraduate and graduate evening and Saturday classes to meet the needs of men and women in the Federal government, the staffs of international agencies, and the Washington business community. Drawing upon the facilities of the entire University, the School is uniquely qualified to provide busy people with the opportunity to secure a college education through evening and Saturday classes. A special feature of the School of Social Sciences and Public Affairs is its outstanding faculty. In addition to the fulltime faculty, particularly experienced in teaching mature students, more than 150 adjunct professors, professorial lecturers, and lecturers who hold prominent positions in their respective fields also serve on the University faculty. They bring to the classroom the experience of many years of distinguished service to the government and to the business community.

SPECIAL PROGRAMS

WASHINGTON SEMESTER

The American University provides an opportunity for selected honor students at other colleges or universities throughout the country to spend a semester in intensive and advanced study in Washington during their junior year. This program is the Washington Semester and is administered by the University and an interinstitutional committee representing the participating institutions. Institutions cooperating in the program include 19 colleges and universities which became members between 1947 and 1952 and 26 whose affiliation began in the fall of 1953. Member institutions, in addition to The American University, are: Allegheny College, Alfred University, Augustana College, Beloit College, Birmingham-Southern College, Boston University, Bucknell University, College of Wooster, Cornell College, Davidson College, Denison University, Dickinson College, Drew University, Earlham College, Grinnell College, Hamline University, Hiram College, Hollins College, Hunter College, Kenyon College, Lake Erie College, Lake Forest College, Lindenwood College for Women, Millsaps College, Monmouth College, Nebraska Wesleyan University, Oberlin College, Park College, Pennsylvania College for Women, Rockford College, Rollins College, Shepherd College, Simpson College, Stetson University, Swarthmore College, Syracuse University, Transylvania College, University of Redlands, Valparaiso University, Wabash College, Washington College, Western Reserve University, Westminster College, Willamette University, and William Jewell College.

DIVISION OF PROFESSIONAL INSTITUTES

As a continuing public service the University offers short, intensive institutes designed to meet the needs of students and other persons already established in their professional fields who desire to increase their knowledge in specialized areas. Institute programs are developed with the expert advice of national and international organizations located in the capital.

BUREAU OF SOCIAL SCIENCE RESEARCH

The Bureau of Social Research was organized by the University in 1950 to consolidate its research activities in the field of the social sciences. It conducts basic inquiries into the various social sciences and also carries on applied research for governmental and private organizations.

AMERICAN LANGUAGE CENTER

The American Language Center was established in 1952 under a grant from the United States Department of State and with the cooperation of embassies and other official and private international agencies. The Center offers intensive instruction to foreign visitors and foreign students in the English language, with incidental study of the history, government, customs, geography, economics, and culture of the United States.

DISTRICT SPEECH CLINIC

The University programs in speech and speech education are augmented by the University-related programs of the District Speech Clinic. An affiliate of the American University, the District Speech Clinic maintains speech laboratories, offices, classrooms, and recording equipment in Leonard Student Center on the Uptown Campus.

The American University recognizes that a broad extracurricular program is an important phase of the educational process within the University. Student affairs and activities provide intimate interest groups for the cultivation of personal relationships and the definition and direction of special aptitudes. The University believes that participation in the extracurricular program provides personal experience in the conduct of organizations and enriches student life.

STUDENT LIFE

Student Government

The opportunity to assume important responsibilities and authority in the conduct of extracurricular activities is given to all students of The American University. Self-government enables students to enjoy the privilege of planning and managing their own affairs, through elected representatives to the College Council. Composed also of selected faculty members, the College Council is the highest governing student body and plays a vital role in the progress and program of the University. Under a student chairman, the Council meets weekly to plan and administer policies that concern the entire student body. To coordinate the complete University extracurricular program, the College Council supervises and acts upon the recommendations of six joint student-faculty boards, consisting of elected student representatives and selected faculty members. These are the Athletic Board, Orientation Board, Publications Board, Religious Board, Scholastic Achievement Board, and Social Board.

Honorary and Professional Societies

One of the most satisfying achievements any student can experience during his University career is selection to one or more honorary or professional societies. This is a signal honor awarded in recognition of outstanding performance in particular fields.

There are local chapters of the following national honorary organizations at The American University:

Alpha Psi Omega, Dramatics

Beta Beta Beta, Biology

Chi Psi Omega, Honorary Academic Society for Graduate Students

Delta Phi Alpha, German

Delta Sigma Rho, Debate

Omicron Delta Kappa, Honorary Society for Junior and Senior Men

Pi Delta Epsilon, Journalism and Radio

Sigma Delta Chi, Professional Journalism





In addition, the University supports three local honorary societies:

Cap and Gown, Junior and Senior Women for scholarship, leadership, and participation in student activities

Omicron Epsilon, Poetry

The University Honor Society, seniors of high scholastic standing

Fraternities and Sororities

Seven national Greek-letter social societies are active on The American University Campus. Their programs and activities are supervised by the men's Inter-Fraternity Council, and the women's Pan-Hellenic Council. The fraternities and sororities are:

for men

Alpha Sigma Phi

Alpha Tau Omega

Phi Sigma Kappa

for women

Alpha Chi Omega

Delta Gamma

Kappa Delta

Phi Mu

Four national Greek-letter legal social societies are active at The American University's Washington College of Law. These are:

for men

Sigma Nu Phi

Delta Theta Pi

for women

Kappa Beta Pi

Phi Delta Delta

Student Publications

THE EAGLE is a weekly newspaper published and edited by the students of the Undergraduate College. The editor and his principal assistants of the managing board, are appointed on a competitive basis by the University's Publication Board, a joint student-faculty committee of the College Council.

THE AUCOLA, the college annual, is published by members of the senior class.

THE FRESHMAN HANDBOOK, published annually by members of the Orientation Board is designed to acquaint and familiarize all incoming students with the traditions, regulations, and facilities of the University.

Students at the University's Washington College of Law are elected annually to the editorial board of the INTRA-MURAL LAW REVIEW, a professional journal published quarterly which contains student articles on legal matters of current interest.

Student Clubs and Organizations

The College Council has approved the organization of student clubs in almost every phase of activity related to the University's over-all program. Many of these groups are related to academic departments, many are related to purely extracurricular activities. Among the various organizations open to all students are the following:

Aquiana, Canterbury Club, Chemistry Club, Debate Club, Deutsche Verein, Future Teachers of America, International Relations Club, Junior-Alliance Française, Math-Physics Club, Men's Press Club, Methodist Student Movement, Music Club, Pan-American Club, Political Club, Radio-TV Guild, Society for the Advancement of Management, Sociological Society and the Student Bar Association.

Radio Workshop

As part of program of radio and television studies, The American University maintains a student radio station, WAMU. A member of the Intercollegiate

Broadcasting System, this student-operated radio station produces daily programs during the school year. Open to all students interested in the operation of a radio station, WAMU maintains its own studies, control room, and news room.

Dramatic and Musical Organizations

Under the direction of the Department of Music, The American University supports a wide variety of singing and musical groups. The American University chorus, carrying one semester hour of academic credit, numbers more than sixty singers. One of the highlights of each academic year is the annual Christmas concert presented just before the beginning of the Christmas recess.

Members of the chorus form The American University Choir which appears at all chapel services. The American University Symphonetta gives several public concerts annually and in addition accompanies the mixed chorus at both the Christmas and Easter concerts.

Student drama groups have regularly produced all forms of dramatic productions. These include a musical production, an annual Shakespearean play in the outdoor Grotto Theater, a fall production and several one-act plays. A growing tradition at The American University is the production of "Seasons Greetings" a special Christmas show combining music and drama for the benefit of Washington's Children's Hospital.

Athletics

Under the direction of the Department of Physical Education, the University maintains two comprehensive athletic programs, so that all students have the opportunity to engage in organized and supervised activity. As members of both the National Collegiate Athletic Association and the Mason-Dixon conference, the University participates in intercollegiate competition.

Careful supervision is given teams and individuals participating in the intramural program. Included in this program are such sports as touch football, tennis, bowling, softball, and swimming for the men, field hockey, softball, tennis, badminton and swimming for the women. All intramural activities are conducted on campus, using the University's regular athletic fields, gymnasiums, and swimming pool.

Chapel

Chapel services at the University are convened regularly and held at the Metropolitan Memorial Methodist Church, adjoining the uptown campus. Special chapel services highlight the beginning and closing of each academic year. The University program opens with the Freshman convocation, and concludes with the Senior Chapel conducted by graduating students.

Alumni Association

At present, over 6,000 men and women enjoy membership in the Alumni Association, which is open to graduates of all divisions of the University. Governed by the Alumni Council, and including all past presidents of the Association as well as 11 members elected annually by the entire membership, the Alumni Association serves as the major tie for maintaining relationships with friends and faculty following graduation.

Alumni activities are coordinated by the University's alumni office located on the uptown campus. In these permanent quarters, alumni visitors are made welcome at all times. A quarterly magazine, *The Lodestar*, containing alumni news and general information is edited and published by the Alumni Secretary. In addition to arranging for the participation of alumni in such special events as Homecoming and Alumni Weekend, the Alumni Secretary also maintains complete personal records on all University graduates.





The following pages describe the offerings of all departments of instruction. Arabic numbers in parentheses following descriptive course titles indicate credit hours earned by completion of each course at the rate of one credit hour for one 50-minute class session or two clock hours of laboratory work a week for 16 weeks or the equivalent. After each course description is indicated the session (Summer, Fall, Spring) during which it is expected the course will be offered. *Some variations in this listing may be necessary. Revised schedules indicating the hour, location, and instructor for each course are published prior to the opening of each session. Students should consult these revised session announcements before registration.*

COURSES OF STUDY

EXPLANATION OF NUMBERING SYSTEM. Each course is designated by a decimal number. The number or numbers to the left of the decimal point (3-71) indicate the department or area responsible for administration of the course. The series of three numbers to the right of the decimal point identifies the level and number of the course as follows:

<i>Course Number</i>	<i>Level</i>
001-099	non-credit courses
100-499	undergraduate courses
500-599	graduate courses open to advanced undergraduate students
600-699	courses for graduate students only
700-799	research courses and seminars for specially qualified graduate students only

READING AND RESEARCH COURSES. In addition to the courses listed in the following pages opportunity is provided for undergraduate students and (in departments offering graduate work) for graduate students to register for specialized reading and research courses. These courses are as follows:

FOR UNDERGRADUATE STUDENTS

- .390 READING PROJECT (1-3) Independent reading and study for advanced undergraduate students. A project must be completed in not more than two consecutive sessions. Under special circumstances it may be completed in one session.
- .490 RESEARCH PROJECT (1-6) Independent research leading to a research paper. May be elected by students who have satisfactorily completed 60 hours of undergraduate work, 6 of which must have been in residence.

FOR GRADUATE STUDENTS

- .590 READING PROJECT (3) Independent reading and study for students who have completed 6 hours of graduate work.
- .690 RESEARCH PROJECT (3-6) Independent research leading to a research report filed permanently in the University library. May be elected by students who have completed 12 hours of graduate work in residence with at least a B average.
- .099 GRADUATE STUDY (No credit) Open to graduate students who have completed course work and thesis seminar requirements for an advanced degree and who wish to continue on the rolls of the University to complete their theses. Students enrolled in this category are entitled to use University library facilities and to consultations with the faculty.

No more than 6 hours may be counted toward the hour requirements for the master's degree for reading courses, individual research, in-service projects, or institutes, nor more than 9 hours for any two or more of these types of work combined; for the doctorate the limits are 9 and 18 hours respectively.

CHANGES IN SCHEDULE. The University reserves the right to cancel or change any course listings in this catalog or in any other published announcements, at any time.

ACCOUNTING

Adjunct Professors: HUGH C. BICKFORD; ELMER C. KOCH; EUGENE C. MOYER.

Assistant Professors: ARTHUR R. CARNDUFF; ALAN M. JOHNSON.

Professorial Lecturers: ALFRED D'ALESSANDRO; EDWIN C. FORS; ROBERT W. KING.

Lecturers: DAVID BROOKS; HENRY H. ELLIOTT; ELIZABETH TAYLOR EVANS; ROY H. HALQUIST; MELVIN E. LEWIS; WILLIAM C. PENNINGTON; AARON ROSLOFF; CHARLES W. TUCKER.

DEGREE PROGRAMS

Programs leading to the degrees of Associate in Business Administration and Bachelor of Science in Business Administration, with a major in accounting, and to the degree of Master of Business Administration are offered by the Department of Business Administration. *Requirements for these degrees are described on page 45.*

Undergraduate Courses

BASIC COURSES

- 3.200 **INTRODUCTORY ACCOUNTING¹** (3) (*formerly Accounting¹: Fact Control of Management*) Scope, purpose of accounting. Basic principles, procedures. Elementary techniques from original recording of business transactions through preparation of financial statements. 41.160 *Fundamentals of Business Mathematics* desirable background. Accounting laboratory fee, parttime students, \$5*. SUMMER. FALL. SPRING.
- 3.201 **INTRODUCTORY ACCOUNTING²** (3) (*formerly Accounting²: Fact Control of Management*) Second half of first year principles course. Introduction to accounting for corporations and principal balance sheet accounts, such as inventories. *Prerequisite*, 3.200. Accounting laboratory fee, parttime students, \$5*. SPRING. 1954 FALL.
- 3.300 **INTERMEDIATE ACCOUNTING¹** (3) (*formerly Functional Accounting*) Last course in basic sequence. Tie-together of principles. Introduction to cost concepts. Current trends. Accounting appraised through management's eyes: functions, usefulness, limitations. Required of all candidates for the M.B.A. degree who have not previously completed first year principles. *Prerequisite*, 3.201 or (for graduate students) 11.400 *Use of Accounting Methods*. Accounting laboratory fee, parttime students, \$5*. FALL. SPRING.

SPECIALIZED COURSES

- 3.420 **COST ACCOUNTING¹** (3) Cost accounting for control in manufacturing. Job order and process cost systems; flexible budgets; joint and by-product costs; break-even point; differential cost, other cost concepts. *Prerequisite*, 3.300. FALL.
- 3.430 **AUDITING¹** (3) (*formerly Internal Auditing for Control*) Procedures used to verify accounts and financial statements. Students prepare complete audit working papers of an extended audit problem up to the auditor's report. *Prerequisite*, 3.300. FALL.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

SPECIALIZED COURSES ALSO OF PARTICULAR INTEREST TO NON-ACCOUNTING MAJORS

- 3.510 **ANALYSIS OF FINANCIAL STATEMENTS** (3) Analysis and interpretation of financial statements from the respective viewpoints of management, creditors, and investors. Determination and interpretation of trends, ratios. Emphasis on case studies. *Prerequisite*, previous accounting courses. SUMMER.
- 3.540 **TAXATION¹** (3) Basic taxation course. Economics of taxation; constitutional basis; effects upon business. Emphasis of federal income taxes on individuals, estates, partnerships. Class preparation of actual forms. *Prerequisite*, 3 hours of accounting. FALL.
- 3.541 **TAXATION²** (3) Specially designed for practicing lawyers, accountants. Federal income, excess profits taxes on corporations; estate, gift taxes; state and local property, excise taxes. Actual forms prepared. *Prerequisite*, 6 hours of accounting and 3.540. SPRING.

*Accounting laboratories directed by laboratory supervisors assist students to apply classroom instruction to solution of practical accounting problems. Each class requiring laboratory has its separate laboratory section meeting weekly for approximately two-thirds classroom time.

- 3.560 ADVANCED ACCOUNTING¹ (3) (*formerly Applications of Accounting*) First half of third year principles. For advanced accounting, finance students, lawyers. Partnerships through liquidation. Estates, trusts. Accounting for "sick" businesses; realization and liquidation reports. *Prerequisite*, 3.300. FALL.
- 3.562 GOVERNMENTAL ACCOUNTING (3) (*formerly Fund Accounting*) Study of accounting system used by governments, emphasizing expenditures through the fund method, sources and control of cash, budget and statement preparation. Primarily municipal level. *Prerequisite*, 3.300. SPRING.
- 3.680 CONTROLLERSHIP IN BUSINESS (3) The controller's function in business. Emphasis on interpretation of accounting aspects of managerial problems and reporting thereon. Role as staff member of the management team. *Prerequisite*, advanced work in accounting and business administration and permission of departmental counselor. 1954 FALL.

COURSES PRIMARILY FOR ACCOUNTANTS

- 3.501 INTERMEDIATE ACCOUNTING² (3) (*formerly Theory of Accounts*) Detailed analysis in turn of each balance sheet account. Technique and theory emphasized. Required of graduate students electing area of accounting for comprehensive exams. *Prerequisite*, 3.300. Accounting laboratory fee, parttime students, \$5. SPRING.
- 3.561 ADVANCED ACCOUNTING² (3) (*formerly Applications of Accounting²*) Second half of third year principles. Preparation of consolidated financial statements. Branch accounting; consolidations and mergers, foreign exchange. *Prerequisite*, 3.501. SPRING.
- 3.520 COST ACCOUNTING² (3) (*formerly Advanced Cost Accounting*) Principles of industrial standard cost accounting and related systems which utilize predetermined rather than historical cost. Techniques of accumulating and recording data for cost control. *Prerequisite*, 3.420. SPRING.
- 3.530 AUDITING²: PROFESSIONAL PRACTICE (3) Preparation of the auditor's report. Auditing procedures, practices and reports of the professional public accountant. Professional and ethical standards of public practice. *Prerequisite*, 3.430. SPRING.
- 3.542 TAXATION³ (3) Tax practice and procedure. How to find facts and develop law. Practice before all Internal Revenue offices; protesting agents' reports; claims for refund. Tax Court procedure. Federal Court procedure. *Prerequisite*, 3.540 and 3.541 (*the latter may be taken concurrently with this course*). SPRING.
- 3.564 SYSTEM DESIGN AND INSTALLATION (3) Techniques of analyzing and designing systems for effective managerial control. Adapting accounting procedures to organizations of various types and sizes. Demonstrations of important machine methods. *Prerequisite*, 3.420, 3.501, and 3.430. 1954 FALL.
- 3.565 C. P. A. REVIEW (3) Review, by readings and lectures, of subjects covered in the uniform Certified Public Accountant examination. Desirable refresher for graduate comprehensive examination in accounting. *Prerequisite*, permission of accounting counselor. FALL.
- 3.566 C. P. A. PROBLEMS (3) Review, by practice in solution of problems, primarily for the accounting practice section of the uniform C. P. A. examination. *Prerequisite*, 3.565 or permission of accounting counselor. SPRING.

ANTHROPOLOGY

See Sociology and Anthropology, page 114.

ART

Associate Professor: WILLIAM H. CALFEE (on leave of absence 1953-1954).

Assistant Professors: SARAH BAKER; ROBERT F. GATES (Acting Chairman).

Instructor: BEN L. SUMMERFORD.

Professorial Lecturer: THOMAS G. TOLLIFSON.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in art are advised to complete 7.200 and 7.201 Survey of Art¹ and ² (6) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 30 hours

Students specializing in painting or sculpture, or both, complete 30 hours; students preparing themselves to teach art complete 24 hours of studio art courses and 5.370 and 5.371 Materials and Methods of Teaching Art in the Junior High School¹ and ² (6).

Related courses 12-25 hours

Students specializing in painting or sculpture are advised to select courses in philosophy, psychology, and related fields. Students planning to teach art in secondary schools select the following courses in education: 21.200 Introduction to Education (3), 21.310 History of Education in American Culture (3), 21.320 Psychology of Education (3), 21.340 The Secondary School Curriculum (4), 21.342 and 21.343 Methods of Teaching in Secondary Schools¹ and ² (4), 21.440 and 21.441 Principles of Education (6), and at least 2 hours in practice teaching courses.

Tool courses 0-6 hours

French or Spanish are recommended.

ELECTIVES—

Associate in Arts 12-22 hours

Bachelor of Arts 23-46 hours

Undergraduate Courses

5.120 CREATIVE PAINTING¹ (5) First in a four-year sequence of courses. Open only to first year students who plan to complete the sequence. Work in creative painting proceeds from the basic and simplified theories of color, composition, design, structural drawing, figure, head, landscape, and still-life to the level of independent student work planned in conference with instructors. *Prerequisite, permission of departmental chairman (for all courses in the sequence).* Fee, all students, \$5 a credit hour. FALL.

5.121 CREATIVE PAINTING² (5) Continuation of 5.120. Fee, all students, \$5 a credit hour. SPRING.

5.130 OIL PAINTING¹ (1) Class designed to acquaint students with structural designs and color patterns existing in all painting. Model and pose changed weekly, encouraging originality and variety of approach. *Prerequisite, permission of instructor.* Fee, all students, \$5. FALL.

5.131 OIL PAINTING² (1) Continuation of 5.130. Fee, all students, \$5. SPRING.

- 5.140 CREATIVE SCULPTURE¹ (5) First in a four-year sequence of courses. Open only to first year students who plan to complete the sequence, which progresses from the study of problems and principles of the materials and concepts of sculpture to independent work in stone, plaster, or wood. *Prerequisite, permission of departmental chairman (for all courses in the sequence).* Fee, all students, \$5 a credit hour. FALL.
- 5.141 CREATIVE SCULPTURE² (5) Continuation of 5.140. Fee, all students, \$5 a credit hour. SPRING.
- 5.220 CREATIVE PAINTING¹ (5) First course in second year of sequence. Continuation of 5.121. Fee, all students, \$5 a credit hour. FALL.
- 5.221 CREATIVE PAINTING² (5) Continuation of 5.220. Fee, all students, \$5 a credit hour. SPRING.
- 5.230 INTRODUCTION TO PAINTING¹ (2-3) Basic principles of painting. Structural drawing from still-life, figure, and head. *Prerequisite, permission of instructor.* Fee, all students, \$5 a credit hour. SUMMER. FALL.
- 5.231 INTRODUCTION TO PAINTING² (2-3) Continuation of 5.231. Fee, all students, \$5 a credit hour. SUMMER. SPRING.
- 5.233 MATERIALS (1) Preparation of various grounds for painting in oil and tempera. Media, underpainting, glazing, emulsions for tempera. Selection and toning of frames. Not offered 1953-1954.
- 5.240 CREATIVE SCULPTURE¹ (5) First course in second year of sequence. Continuation of 5.141. Fee, all students, \$5 a credit hour. FALL.
- 5.241 CREATIVE SCULPTURE² (5) Continuation of 5.240. Fee, all students, \$5 a credit hour. SPRING.
- 5.250 INTRODUCTION TO SCULPTURE¹ (2-3) Survey of the problems and principles of sculpture. Acquaintanceship with basic tools, techniques, and materials for plastic expression. *Prerequisite, permission of instructor.* Fee, all students, \$5 a credit hour. FALL.
- 5.251 INTRODUCTION TO SCULPTURE² (2-3) Continuation of 5.250. Fee, all students, \$5 a credit hour. SPRING.
- 5.260 INTRODUCTION TO DRAWING¹ (1) Drawing from the human figure. Emphasis upon learning to see, think, and state rapidly ideas of movement, expression, form, and structure. *Prerequisite, permission of instructor.* Fee, all students, \$5. SUMMER. FALL.
- 5.261 INTRODUCTION TO DRAWING² (1) Continuation of 5.260. Fee, all students, \$5. SUMMER. SPRING.
- 5.320 CREATIVE PAINTING¹ (5) First course in third year of sequence. Continuation of 5.221. Fee, all students, \$5 a credit hour. FALL.
- 5.321 CREATIVE PAINTING² (5) Continuation of 5.320. Fee, all students, \$5 a credit hour. SPRING.
- 5.330 INTERMEDIATE PAINTING¹ (2-3) More advanced application of the problems undertaken in 5.231. Student follows his own preferences in developing more abstract, non-objective, or representational approach. *Prerequisite, 5.231.* Fee, all students, \$5 a credit hour. SUMMER. FALL.
- 5.331 INTERMEDIATE PAINTING² (2-3) Continuation of 5.330. Fee, all students, \$5 a credit hour. SUMMER. SPRING.
- 5.335 LANDSCAPE (1) Principles of design, composition, and color adapted to problems of landscape painting. All mediums. Fee, all students, \$5. Not offered 1953-1954.
- 5.340 CREATIVE SCULPTURE¹ (5) First course in third year of sequence. Continuation of 5.241. Fee, all students, \$5 a credit hour. FALL.
- 5.341 CREATIVE SCULPTURE² (5) Continuation of 5.340. Fee, all students, \$5 a credit hour. SPRING.
- 5.350 INTERMEDIATE SCULPTURE¹ (2-3) Further experience in the application of concepts and techniques. Experimentation with stone, wood, metal. *Prerequisite, 5.251.* Fee, all students, \$5 a credit hour. Not offered 1953-1954.
- 5.351 INTERMEDIATE SCULPTURE² (2-3) Continuation of 5.350. Fee, all students, \$5 a credit hour. Not offered 1953-1954.
- 5.360 INTERMEDIATE DRAWING¹ (1) Emphasis upon the growth of the student's personal vision. *Prerequisite, 5.261.* Fee, all students, \$5. SUMMER. FALL.
- 5.361 INTERMEDIATE DRAWING² (1) Continuation of 5.360. Fee, all students, \$5. SUMMER. SPRING.
- 5.370 MATERIALS AND METHODS OF TEACHING ART IN JUNIOR HIGH SCHOOLS¹ (3) A workshop crafts course designed for the prospective junior high school art teacher. (This course, together with 5.371 in the spring, is offered to meet part of the requirements of the Department of Education in the District of Columbia for the junior high school teacher.) *Prerequisite, 12 hours of creative painting or permission of instructor.* Fee, all students, \$5 a credit hour. FALL.

- 5.371 MATERIALS AND METHODS OF TEACHING ART IN JUNIOR HIGH SCHOOLS² (3) Continuation of 5.370. Fee, all students, \$5 a credit hour. SPRING.
- 5.420 CREATIVE PAINTING¹ (5) First course in fourth year of sequence. Continuation of 5.321. Fee, all students, \$5 a credit hour. FALL.
- 5.421 CREATIVE PAINTING² (5) Continuation of 5.420. Fee, all students, \$5 a credit hour. SPRING.
- 5.430 ADVANCED PAINTING¹ (2-3) Student works on problems of his own choice developed in his personal manner in conference with the instructor. *Prerequisite*, 5.231. Fee, all students, \$5 a credit hour. SUMMER. FALL.
- 5.431 ADVANCED PAINTING² (2-3) Continuation of 5.430. Fee, all students, \$5 a credit hour. SUMMER. SPRING.
- 5.440 CREATIVE SCULPTURE¹ (5) First course in fourth year of sequence. Continuation of 5.341. Fee, all students, \$5 a credit hour. FALL.
- 5.441 CREATIVE SCULPTURE² (5) Continuation of 5.440. Fee, all students, \$5 a credit hour. SPRING.
- 5.450 ADVANCED SCULPTURE¹ (2-3) Individual work toward a personal creative expression and understanding of three dimensional form. *Prerequisite*, 5.351. Fee, all students, \$5 a credit hour. Not offered 1953-1954.
- 5.451 ADVANCED SCULPTURE² (2-3) Continuation of 5.450. Fee all students, \$5 a credit hour. Not offered 1953-1954.
- 5.460 ADVANCED DRAWING¹ (1) Experiments in the creative and emotional quality of drawing. Development of a personal creative expression. *Prerequisite*, 5.361. Fee, all students, \$5. SUMMER. FALL.
- 5.461 ADVANCED DRAWING² (1) Continuation of 5.460. Fee, all students, \$5. SUMMER. SPRING.

ART HISTORY

Associate Professor: ANDREW S. KECK (on leave of absence during the 1954 spring session).

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in art history are advised to complete 7.200 and 7.201 Survey of Art¹ and ² (6) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

Not including 7.200 and 7.201 Survey of Art¹ and ² (6).

Related courses 12 hours

History, philosophy, or a combination of both.

Tool courses 2-3 hours

5.230 Introduction to Painting¹ (2-3) or 5.250 Introduction to Sculpture¹ (2-3). Students interested in careers in art museum work are advised to acquire a reading knowledge of French or German.

ELECTIVES—

Associate in Arts 12-22 hours

Bachelor of Arts 45-50 hours

Undergraduate Courses

- 7.200 SURVEY OF ART¹: ANCIENT AND MEDIEVAL (3) Illustrated historical introduction to the major art forms: architecture, sculpture, painting, with art presented as an objectification and record of man's major beliefs and ideas. FALL.
- 7.201 SURVEY OF ART²: RENAISSANCE AND MODERN (3) Illustrated historical introduction to architecture, sculpture, and painting in the western world between 1500 and 1950 with attention to selected original works in Washington. SPRING.
- 7.300 ANCIENT ART (3) Ancient Mediterranean civilizations studied through the language of the visual arts: architecture, sculpture, painting, with emphasis on the cultural achievements of classical Greece. 1954 FALL.
- 7.301 MEDIEVAL ART (3) Clarification of the Christian view of experience in western Europe and in the Byzantine Empire through the visual record of architecture and its attendant arts. 1955 SPRING.
- 7.302 ART IN THE U. S.¹: TO 1870 (3) Architecture, sculpture, and painting in the U. S. from earliest colonial days to the year 1870 viewed against their European backgrounds. 1955 FALL AND ALTERNATE YEARS.
- 7.303 ART IN THE U. S.²: FROM 1870 (3) Evaluation of the major arts in this country during the period characterized by a search for new styles in architecture, painting and sculpture. 1956 SPRING AND ALTERNATE YEARS.
- 7.400 RENAISSANCE ARCHITECTURE AND SCULPTURE (3) Architecture and sculpture in Europe between 1400 and 1700 with special attention to the effects of humanism, individualism, and absolutism on artistic styles. 1953 FALL AND ALTERNATE YEARS.
- 7.401 MODERN ARCHITECTURE AND SCULPTURE (3) Critical examination of the plastic arts in Europe and the U. S. with an inquiry into the modern realistic attitude toward life. 1956 SPRING AND ALTERNATE YEARS.
- 7.402 RENAISSANCE PAINTING (3) Study of the Italian Renaissance and Baroque painters and of El Greco, Poussin, Rembrandt, Rubens, and Velasquez, with special attention to original works in Washington. 1954 FALL.
- 7.403 MODERN PAINTING (3) Critical examination of the aims and accomplishments of painters in Europe and the U. S. since 1700 with due attention to original works in Washington. 1955 SPRING.

BIOLOGY

Professor: STEPHEN P. HATCHETT (Chairman).

Adjunct Professor: O. B. HUNTER, JR.

Instructor: STANLEY L. McCAUSLAND.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science, Bachelor of Arts. See page 56 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in biology are advised to complete 9.110 General Zoology (4), 9.111 General Botany (4), 57.200 General Psychology (3), 65.200 Introduction to Sociology (3), and 65.201 Introduction to Anthropology (3), as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses	12 hours
8 hours of this requirement may be satisfied by the completion of 9.110 General Zoology (4) and 9.111 General Botany (4) as a part of the University requirements.	
Related courses	8 hours
15.110 and 15.111 General Chemistry ¹ and ² (8).	

BACHELOR OF SCIENCE

Major courses	40 hours
9.110 General Zoology (4), 9.111 General Botany (4), 9.200 Comparative Vertebrate Anatomy (4), 9.300 General Entomology or 9.305 Field Zoology (4), 9.401 Genetics (4), and 20 additional hours.	
Related courses	20 hours
15.110 and 15.111 General Chemistry ¹ and ² (8) and 12 additional hours.	
Tool courses	6-18 hours
6 hours of mathematics are required; 12 hours of French or German are recommended.	

BACHELOR OF ARTS

Major courses	32 hours
9.110 General Zoology (4), 9.111 General Botany (4), 9.200 Comparative Vertebrate Anatomy (4), 9.300 General Entomology or 9.305 Field Zoology (4), 9.401 Genetics (4), and 12 additional hours.	
Related courses	12 hours
15.110 and 15.111 General Chemistry ¹ and ² (8) and 4 additional hours.	

ELECTIVES—

Associate in Arts	4-16 hours
Bachelor of Science	6-30 hours
Bachelor of Arts	40-52 hours

Undergraduate Courses

- 9.100 HUMAN BIOLOGY (3) Nature of living organisms. The structure, development, and functions of animals with special attention to man. Demonstrations, no laboratory. FALL. SPRING.
- 9.110 GENERAL ZOOLOGY (4) Structure, function, development, heredity, and evolution of animals. Field trips and museum assignments. 2 hours of lecture, 1 hour of recitation, 4 hours of laboratory. Laboratory fee, parttime students, \$5. FALL.

- 9.111 GENERAL BOTANY (4) Structure, function, and development of plants. Survey of plant kingdom. Study of campus woodland; field trips. 2 hours of lecture, 1 hour of recitation, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.200 COMPARATIVE VERTEBRATE ANATOMY (4) Comparative anatomical study of the organ systems of animals representing the classes of vertebrates. *Prerequisite*, 9.110. Course recommended for students preparing for admission to medical and dental schools. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. FALL.
- 9.201 PHYSIOLOGY (4) Functions of the vertebrate organ systems with special reference to those of man. *Prerequisite*, 9.110. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1955 SPRING AND ALTERNATE YEARS.
- 9.205 GENERAL BACTERIOLOGY (4) Bacteria and their relationship to human welfare. Culture methods. Principles of sterility; aseptic techniques. *Prerequisite*, 8 hours of biology; *general chemistry strongly recommended*. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. FALL.
- 9.208 PLANT TAXONOMY (4) Study of local flora; characteristics, phylogeny, and ecology. Extensive field work collecting and identifying specimens. Includes trees, shrubs as well as the other flowering plants. *Prerequisite*, 9.111. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 9.300 GENERAL ENTOMOLOGY (4) Morphology, life history, classification, and economic importance of insects. *Prerequisite*, 9.110. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1955 SPRING AND ALTERNATE YEARS.
- 9.304 INVERTEBRATE ZOOLOGY (4) Morphology, physiology, and evolutionary relationship of invertebrate animals. *Prerequisite*, 9.110. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.305 FIELD ZOOLOGY (4) Field study of local animals and of their adaptation, geographical distribution, behavior, and relationship to environment. *Prerequisite*, 9.110 and 9.111. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 SPRING AND ALTERNATE YEARS.
- 9.306 CLINICAL LABORATORY METHODS (4) Techniques utilized in a clinical laboratory. Course planned primarily for students planning careers in medical technology. *Prerequisite*, permission of departmental chairman. 1954 FALL AND ALTERNATE YEARS.
- 9.307 CLINICAL LABORATORY PRACTICE (7) 6-month apprentice experience in laboratory of a hospital affiliated with the University in its medical technology program. *Prerequisite*, permission of departmental chairman and instructor. Offered to meet the needs of individual students.
- 9.308 ADVANCED CLINICAL LABORATORY PRACTICE (7) Advanced study through additional 6 months of hospital laboratory practice. *Prerequisite*, satisfactory completion of 9.307 and recommendation of instructor. Offered to meet the needs of individual students.
- 9.311 VASCULAR PLANTS (4) Advanced study of anatomy and physiology of roots, stems, leaves, flowers, and fruits of seed plants. Distribution and ecological aspects also considered. *Prerequisite*, 9.111. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 9.401 GENETICS (4) Principles of heredity and variations in animals and plants. Problems to illustrate Mendelian inheritance. *Prerequisite*, 8 hours in biology. 3 hours of lecture, 2 hours problem work. Laboratory fee, parttime students, \$5. 1953 FALL AND ALTERNATE YEARS.
- 9.402 VERTEBRATE EMBRYOLOGY (4) Mechanics of development. Formation of germ cells, fertilization, cleavage of the fertilized ovum, morphogenesis, and later development of the frog, chick, and pig. *Prerequisite*, 12 hours in biology. Course recommended for students preparing for admission to medical and dental schools. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SPRING.
- 9.403 HISTOLOGY-CYTOLOGY (4) Structures and properties of cells. Microscopic study of tissues and organs of representative mammals, including man. *Prerequisite*, 12 hours in biology. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1953 FALL AND ALTERNATE YEARS.
- 9.404 HISTOLOGICAL TECHNICS (4) Fundamental technics involved in the preparation of microscopic slides of plant and animal tissues. Whole mounts. Advanced studies is histology. *Prerequisite*, permission of departmental chairman. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 SPRING AND ALTERNATE YEARS.
- 9.406 PARASITOLOGY (4) Parasites and their relationships to disease and human welfare. Life histories, morphology, identification, and parasitological preparations. *Prerequisite*, permission of departmental chairman. Laboratory fee, parttime students, \$5. 1954 FALL AND ALTERNATE YEARS.
- 9.420 ADVANCED BIOLOGICAL STUDIES (4) Introduction to research provided for competent students in field of special interest. *Prerequisite*, permission of departmental chairman. Laboratory fee, parttime students, \$5. Offered to meet the needs of individual students.

BUSINESS ADMINISTRATION

Professors: NATHAN A. BAILY (Chairman); MELVILLE J. ULMER; HAROLD B. WESS.

Adjunct Professor: HARRY W. KETCHUM.

Associate Professor: THEODORE H. LEVIN.

Assistant Professors: ARTHUR R. CARNDUFF; R. B. CHRISTIE; DAVID S. FIELDS.

Professorial Lecturers: J. HARVEY DALY; BERNARD T. DODDER; LLOYD W. FLETCHER, JR.; ARTHUR A. MAY; THOMAS L. PHILLIPS; A. M. PROTHRO; JOHN R. RIGGLEMAN; MYLES E. ROBINSON; MILTON A. SMITH; EARL P. STRONG; CAREY WINSTON.

Lecturers: JESSE E. AIKEN; A. MACGREGOR AYER; LEE M. BARCY; V. T. H. BIEN; HAL N. CARR; J. FRANK CLEMENTS; SHERMAN S. COHEN; LEO DAVID; EDWARD S. DAVIS; LAWRENCE J. DOBROW; ROBERT G. DREW-BEAR; ALFRED H. EDELSON; WILLIAM A. FURMAN, JR.; GEORGE C. FULLER; M. GEORGE GOODRICK; RUTH G. GRAZE; JOSEPH H. GREEN; L. FREDERICK HAMILTON; ROBERT C. KOVARIK; KALMAN A. LIFSON; GEORGE J. LINK; CURT C. MACK; FERD NAUHEIM; JACK NEFF; THOMAS M. RAYSOR; JACOB SEIDENBERG; ROBERT W. STRAUS; M. BELMONT VER STANDIG.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Business Administration, Bachelor of Science in Business Administration.

UNIVERSITY REQUIREMENTS 38-42 hours

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN BUSINESS ADMINISTRATION (majors in business administration, accounting, or secretarial studies).

Major courses 12 hours

Related course 3 hours

19.202 Introduction to Economic Analysis (3).

Tool courses 9 hours

3.200 and 3.201 Introductory Accounting¹ and ² (6), 69.200 Fundamentals of Statistics (3).

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION (majors in accounting, advertising, business and industrial management, finance, personnel management, real estate, retailing, sales management, or transportation and traffic management).

Major courses 24-42 hours

Related courses 27 hours

3.540 Taxation¹ (3), 11.300 Elements of Business Research (3), 11.301 Business Law¹ (3) (or 19.568 Interstate Commerce Law¹ for majors in transportation and traffic management), 11.510 Economic Analysis in Business (3), 11.512 Business Budgeting and Executive Control (3), 19.202 Introduction to Economic Analysis (3), 19.302 Money and Banking (3), 19.521 Corporation Finance (3), 29.204 History of American Business Leadership² (3).

Tool courses 12 hours

3.200 and 3.201 Introductory Accounting¹ and ² (6), 69.200 Fundamentals of Statistics (3), 69.300 Business Statistics (3).

ELECTIVES—

Associate in Business Administration 0-4 hours

Bachelor of Science in Business Administration 3-25 hours

GRADUATE DEGREES—The department offers programs leading to the degree of Master of Business Administration. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

BASIC COURSES

- 11.300 **ELEMENTS OF BUSINESS RESEARCH** (3) Research techniques in business and economics. Sources of information, analysis and organization of data, writing business reports. Required of candidates for the B. S. in Business Administration degree. *Prerequisite*, 69.200. FALL. SPRING. 1955 SUMMER.
- 11.301 **BUSINESS LAW¹: CONTRACTS AND AGENCY** (3) Legal concepts and functions. Federal and state court systems. Legal phraseology; elementary legal bibliography. Elements of law and contracts and agency. SUMMER. FALL. SPRING.
- 11.302 **BUSINESS LAW²: NEGOTIABLE INSTRUMENTS AND BUSINESS ORGANIZATIONS** (3) Functions, form, and content of commercial paper. Selected illustrative cases. Elementary law of partnerships, corporations, and trusts. *Prerequisite*, 11.301. SUMMER. FALL. SPRING.
- 11.303 **BUSINESS LAW³: BAILMENTS, SALES, AND PROPERTY** (3) Principles of bailments. Law of sales and sales contracts. Elements of the law of personal and real property. Terminology involved in transfers of real property. *Prerequisite*, 11.301. SUMMER. FALL. SPRING.
- 11.400 **USE OF ACCOUNTING METHODS** (3) For non-specialists in accounting. Accounting methods, procedures, and philosophy as tools of management in business or government, in financial analysis, or business or economic research. Required of M. B. A. candidates who have not previously completed first year accounting. FALL. SPRING.
- 11.401 **BUSINESS CORRESPONDENCE** (3) How to write better business letters. Types of business letters. How to make business letters effective tools for public relations, sales promotion, and advertising. *Prerequisite, courses in composition and business administration.* FALL.
- 11.402 **SALESMANSHIP** (3) Art of salesmanship: creation of consumer desires, aiding customers in buying. Buying motives; selling techniques; characteristics of efficient salesmen. Selling in a dynamic economy. Career opportunities. SPRING.
- 11.405 **PERSONAL FINANCE** (3) Solving personal financial problems by effective money management. Personal budgeting; home ownership; borrowing; saving; providing for old age, sickness. Introduction to investments, insurance, taxes. FALL.

BUSINESS MANAGEMENT

- 11.410 **BUSINESS ORGANIZATION AND ADMINISTRATION¹** (3) Principles of organization. Survey of specialized functions of modern management. Primarily for M. B. A. candidates whose undergraduate major was *not* business administration, and for students seeking basic course in business organization and management. *Prerequisite, basic courses in accounting, economics, and statistics.* SUMMER. SPRING.
- 11.411 **BUSINESS ORGANIZATION AND ADMINISTRATION²** (3) Continuation of 11.410. Emphasis on current business problems. Case studies used. Not offered 1953-1955.

INDUSTRIAL MANAGEMENT

- 11.420 **PRINCIPLES OF INDUSTRIAL MANAGEMENT** (3) Organization and operation of industrial enterprise. Economics of production. Management of physical property. Organization of physical plant. The production process. Production and cost control. 1954 FALL. 1955 SPRING.

ADVERTISING

- 11.430 **PRINCIPLES OF ADVERTISING** (3) Advertising approach to marketing problems. Advantages and limitations of advertising. Elements of advertising campaigns; budget, product, consumer studies, media selection, copy, layout, production, scheduling, testing. *Prerequisite, 11.410 or permission of instructor.* FALL. SPRING.

PERSONNEL MANAGEMENT

- 11.470 **PERSONNEL MANAGEMENT IN INDUSTRY** (3) Manpower management in private enterprise. Human relations and human engineering. Recruitment, selection, testing, training, promotion, transfer, turnover; health, safety, morale, discipline, personnel services, records, research. SUMMER. FALL. SPRING.

REAL ESTATE

- 11.480 **FUNDAMENTALS OF REAL ESTATE** (3) Basic economics, history, ethics of real estate business. Role of real property in economic life. Terminology. Characteristics of markets. Values. Development, financing, marketing. FALL. SPRING.

MARKETING

- 12.410 **MARKETING ORGANIZATION** (3) The marketing process: functions, institutions, channels involved in distribution of goods and services from producers to consumers. Buying motives. Role of middlemen. Marketing practices, costs. SUMMER. FALL. SPRING.

RETAILING

- 12.420 **PRINCIPLES OF RETAILING** (3) Procurement and distribution of merchandise by retailers. Types of retail organizations. Consumer economics from retailer's viewpoint. Retail buying. Pricing policies. Planning, control. Legal regulations. 1955 SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

BUSINESS MANAGEMENT

- 11.510 **ECONOMIC ANALYSIS IN BUSINESS** (3) Managerial economics: tools and methods for application of economic analysis to solution of business problems. Pricing, volume, new products, capital expansion. Required of M. B. A. candidates. *Prerequisite, basic courses in accounting, economics, and statistics.* SUMMER. FALL. SPRING.
- 11.511 **FOUNDATIONS OF BUSINESS FORECASTING** (3) Theoretical tools needed by executives to evaluate appraisals of economic outlook. Analysis of business cycles, fluctuations of income and employment. Economic indicators. Reliability of forecasts. Required of M. B. A. candidates. *Prerequisite, 11.510.* SPRING.
- 11.512 **BUSINESS BUDGETING AND EXECUTIVE CONTROL** (3) Budgeting as a managerial tool for analysis, planning, coordination, control. Development of budgeting. Required of M. B. A. candidates. *Prerequisite, 6 hours in accounting and 3-6 in statistics.* SUMMER. FALL. SPRING.
- 11.514 **BUSINESS-GOVERNMENT RELATIONSHIPS** (3) How individual business men express views and demands to governmental agencies. How organizations determine membership views and adopt policies on business-government relationships. Advisory committees. Lobbying. FALL. SPRING.
- 11.516 **MANAGEMENT OF SMALL BUSINESS** (3) Basic management principles applied to small business. Aids to profitable operation. Attention to specific problems for students planning own businesses and for proprietors of small businesses. *Prerequisite, 11.410.* Not offered 1953-1955.

INDUSTRIAL MANAGEMENT

- 11.520 **MOTION AND TIME STUDY** (3) Principles and methods of analysis of work methods and establishment of standard methods of operation. Measurement of efficiency. Procedures for installation of programs. FALL. SPRING.
- 11.521 **INDUSTRIAL PLANT PLANNING** (3) How to get a manufacturing unit into operation. Location of factories. Layout planning principles and techniques. Industrial buildings. Relationships with production engineers, architects, and contractors. 1954 SPRING AND ALTERNATE YEARS.
- 11.522 **MATERIALS HANDLING** (3) Principles, operating problems, training and instruction programs, cost elements, selection and use of equipment. Case studies from business, industry, and the military. 1954 FALL. SPRING.
- 31.002 **INSTITUTE ON MATERIALS HANDLING** (No credit). See page 75.
- 11.523 **MANAGEMENT ENGINEERING** (3) Scope, history, and functions of management engineering. Types of management engineers. Training and experience essential to successful careers in management engineering. *Prerequisite, advanced work in business administration.* SPRING.

ADVERTISING

- 11.530 **SALES PROMOTION** (3) Methods and devices to increase effectiveness of demand created by merchandising, mass advertising, and personal selling. Emphasis on techniques aiding development of individual selling abilities. *Prerequisite, 11.430.* FALL. SPRING.
- 11.532 **ADVERTISING COPY** (3) How to write advertisements which increase sales. Distinctive problems of various types of copy analyzed and methods of copy testing evaluated. *Prerequisite, 11.430 or permission of instructor.* SPRING.
- 11.533 **ADVERTISING LAYOUT AND PRODUCTION** (3) Arrangement of headlines, copy, illustrations to achieve balance, gaze motion, distinctiveness, legibility. Type, paper, production processes. Practice in visualizing, laying out, scheduling, producing. 1954 FALL.

- 11.535 ADVERTISING MEDIA (3) Selection and use of all media except television, radio, direct mail. Operations of newspaper and magazine advertising departments, scheduling requirements, methods of evaluation, rate structures. 1955 SPRING.
- 11.536 DIRECT MAIL SELLING (3) Principles and practices of profitable direct advertising. When and how to use direct mail selling. How to program, prepare, buy direct mail pieces. Postal regulations. 1954 FALL.
- 11.537 RETAIL ADVERTISING (3) How to write retail store advertising which increases sales. Media selection, budgeting. Preparation of headlines and copy; elements of production; evaluation methods. Supplemental media. *Prerequisite*, 11.530 or *permission of instructor*. Not offered 1953-1955.
- 11.538 NATIONAL ADVERTISING (3) Advertising industrial and consumer goods and services nationally. Implementing plans, coordinating with other selling efforts. Students function as agency or manager in planning and recommending advertising. *Prerequisite*, 11.537. Not offered 1953-1955.
- 11.539 ADVERTISING AGENCY MANAGEMENT (3) Effective agency management, finance, accounting. Long range planning. Advertiser-agency relationships. Personal work control methods. Merchandising of advertising programs. *Prerequisite*, *permission of instructor*. 1955. SPRING.

INSURANCE

- 11.560 LIFE INSURANCE¹ (3) Fundamental principles. Analysis of companies, contracts, costs to policyholders. Premium computation, valuation, apportionment of surplus. State regulations, laws, judicial decisions affecting life insurance. Course preparatory for Part A of the Chartered Life Underwriter's examination. 1954 FALL.
- 11.561 LIFE INSURANCE² (3) Fundamentals applied to estate planning, group insurance. Methods of computing mortality tables, premiums, reserves. History of life insurance; its role in U. S. economic development. Course preparatory for Part A of the Chartered Life Underwriter's examination. 1955 SPRING.
- 11.562 PROPERTY INSURANCE (3) Analysis of contracts, insurable interest. Endorsements: clauses, forms; insuring consequential loss. Reinsurance. Loans, adjustments, settlements; rates, reserves. Ocean, inland marine insurance. SPRING.
- 11.563 CASUALTY INSURANCE (3) Insurance coverage for general liability, automobile, property damage, aviation, theft, dishonesty, fidelity, credit. Underwriting; rating procedures. Prospecting, sales approaches, closings. Desirable background for C.F.C.U. examination. FALL.

PERSONNEL MANAGEMENT

- 11.570 WAGE ADMINISTRATION AND JOB EVALUATION (3) Wage and salary determination and administration. Job descriptions, job evaluation, job classification. Wage and salary structure; efficiency rating; incentive systems; legislation; occupational information. *Prerequisite*, 11.470. SPRING.
- 11.571 LABOR RELATIONS AND COLLECTIVE BARGAINING (3) Development of labor as an institutional group affecting management. Impact on the economy. Organization for collective bargaining relationships. Conflict and cooperation, labor agreements, government regulation. *Prerequisite*, 19.100 *Structure of the American Economy*. SUMMER. SPRING.
- 11.572 SUPERVISION IN INDUSTRY (3) Effective supervision. Characteristics of successful programs. Developing responsibility, assigning authority. Role in communication. Training, work improvement. Personnel, control, production functions; safety, morale. Union contract administration. *Prerequisite*, 11.470. FALL.
- 11.573 COMMUNICATION AND EMPLOYEE PRODUCTIVITY (3) How effective employee-management communication can increase employee productivity. Human factors in administration. Techniques of program evaluation and correction. Unions. Theory and case studies. *Prerequisite*, 11.470. FALL.
- 31.001 INSTITUTE ON EMPLOYEE COMMUNICATION (No credit). See page 75.

REAL ESTATE

- 11.580 REAL ESTATE PRACTICE¹ (3) Practical operation of a brokerage business. Economic, functional, ethical, legal status, and responsibilities of broker. Local regulations. Appraising residential, income properties. Financing; taxation; construction; finished loans. FALL.
- 11.581 REAL ESTATE PRACTICE² (3) Advertising. Listings. Selling: creative selling, ground sales. Developments. Leases: residential, commercial. Sales contracts, settlements. SPRING.
- 11.582 REAL ESTATE LAW (3) Legal aspects of real estate transactions. Current requirements in acquisition, encumbrance, transfer. Rights, obligations of parties in transactions. Survey of laws, analysis of important cases, statutory provisions. FALL. SPRING.
- 11.583 HOME BUILDING (3) Constructing a home. Site selection, acquisition. Architect's duties, responsibilities. Design, building codes, permits. Construction materials. Setting, landscaping. Costs, financing. Selection of builder, building contracts, bonding. FALL.

- 11.584 MORTGAGE FINANCING (3) History of mortgage lending. Evaluation of loan applications, property appraisal. Underwriting mortgage risk, selling loans, correspondent-investor relationships. Construction loans. Government financing. Closing, servicing loans. New business. FALL.
- 11.585 REAL ESTATE MANAGEMENT (3) How to manage property. Property management as specialized branch of real estate. Management of commercial, dwelling units. Neighborhood analysis, tenant selection, maintenance, repair. Public relations. SPRING.
- 11.586 URBAN LAND ECONOMICS (3) Basic principles of utilization, valuation, financing, taxation, control of urban land, and their relationship to community development. 1955 SUMMER.
- 11.587 URBAN COMMUNITY PLANNING (3) Community planning in urban development, efficient land utilization. Relationship to other municipal functions; metropolitan, state, national planning; housing programs; private ownership. Political aspects, public relations problems. *Prerequisite*, 11.586. Not offered 1953-1955.
- 11.588 REAL ESTATE MARKET ANALYSIS (3) How to measure demand and supply for real estate in a local market. Sources of information. Population analysis. Forecasting techniques. *Prerequisite*, 11.480 and 12.511. Not offered 1953-1955.
- 11.589 REAL ESTATE APPRAISAL¹ (3) *Official demonstration case-study course of the American Institute of Real Estate Appraisers*. Fundamental theories, principles of appraising properties. Mathematics of appraising. Qualifications of appraiser. Satisfactory grade accepted by Appraisal Institute in lieu of Required Examination No. 1. *Prerequisite*, 12 hours of real estate courses or equivalent experience. Appraisal Institute fee, \$20. SPRING.
- 31.505 INSTITUTE ON REAL ESTATE APPRAISAL² (3) See page 75.

MARKETING

- 12.510 MARKETING PROBLEMS (3) Marketing and costs of distribution. Relationships to prices, volume of production, competition. Role of consumer. Marketing efficiency. Merchandising, margins, expenses. Cooperatives, trade associations. Governmental policies. *Prerequisite*, 12.410. SPRING.
- 12.511 MARKET RESEARCH (3) Collection, interpretation, presentation of data as basis for marketing decisions. Techniques for analyzing size, character of markets. Sampling, questionnaires, surveys; use of company, external records. *Prerequisite*, 12.410 and 69.200, *Fundamentals of Statistics*. SUMMER. FALL. SPRING.
- 12.512 DISTRIBUTION COST ANALYSIS (3) Marketing data as management tools to reduce distribution costs, increase selling efficiency. Analyzing distribution costs, profits by products, customers, territories. Effect on over-all position of firm. *Prerequisite*, 12.511. 1955 SPRING.
- 12.514 SALES MANAGEMENT (3) Organization of sales department. Qualifications, duties of sales manager. Recruitment, selection, training of salesmen. Planning, conducting sales campaigns. Sales trend studies, forecasts. Sales cost, control. *Offered with the cooperation of Washington Sales Executives Club*. FALL.
- 12.517 FOREIGN TRADE (3) American markets for foreign commodities; foreign markets for American products. Types of organizations. Market analysis. Securing dealers, agents. Financing sales; credits; collections. Information sources. *Prerequisite*, 19.400, *International Economics*. SPRING.
- 12.518 EXPORT-IMPORT PROCEDURES (3) Buying and selling in foreign trade: practices, procedures. U. S., foreign government regulations. Foreign trade law. Documents. Banking, insurance. Shipping, packaging, tariff problems. Advertising, sales promotion. *Prerequisite*, 12.517. 1954 FALL.
- 12.612 MARKETING MANAGEMENT (3) Problem approach to marketing at policy level. Pricing. Selection of distribution channels, territories. Competition; government controls. Organization, direction of sales campaigns. Marketing tools of management. 1954 FALL.

RETAILING

- 12.520 (*formerly* 12.524) RETAILING AND THE CONSUMER MARKET (3) How retail enterprises can increase their share of the consumer dollar. Consumer income and expenditures. Evaluation of potential sales, profitability of enterprises in different locations. FALL.
- 12.521 RETAIL STORE GENERAL MANAGEMENT AND MERCHANDISING (3) (*formerly* 12.527 *Retail Store Management*) How to make money in retailing. Policy making. Merchandising. General administrative course; students analyze operations of actual store from viewpoint of obtaining maximum profit. 1953 FALL. 1954 AND 1955 SPRING.
- 12.522 STORE ORGANIZATION AND OPERATION (3) Problems of store management faced by operation executives. Organization; location; layout; expense; personnel management; receiving; packing; wrapping; delivery; customer complaints; protection; maintenance; mail, telephone orders. 1954 FALL.
- 12.523 (*formerly* 12.520) FASHION IN RETAILING (3) Fashion in selection, promotion, selling of merchandise. Effect on consumers, manufacturers, retailers. Fashion cycles. Current fashions; work of prominent designers. Career opportunities for men, women. 1954 SPRING.

- 12.524 RETAIL BUYING (3) The buyer: functions and responsibilities. Pre-buying preparation; selecting new lines; ordering. Resident buying. Buying and merchandising. Problems in buying various types of goods. 1954 FALL.
- 12.525 CONSUMER PRODUCTS (3) Basic information about consumer products: production, use characteristics; comparative costs; consumer appeals. Basic materials analysis. For all concerned with successful sale of consumer products to public. 1955 SPRING.
- 12.526 (formerly 12.522) MATHEMATICS OF MERCHANDISING (3) Interpretation of operating figures applied to selling departments or individual businesses. Analysis of factors responsible for profits and losses. Emphasis on retail method of inventory. FALL.

SEMINARS

- 12.710 SEMINAR IN BUSINESS MANAGEMENT¹ (3) Primarily for students offering business management as a comprehensive examination field. Emphasis on solution of problems of chief administrative officers through use of case studies. FALL.
- 12.711 SEMINAR IN BUSINESS MANAGEMENT² (3) Open to students who have not completed 12.710. Emphasis on human relations responsibilities of executives. Case studies. SPRING.
- 12.720 SEMINAR IN RETAILING MANAGEMENT (3) Problems of managing retail enterprises analyzed through case studies. Students attempt to develop managerial programs or bases for managerial decisions. Oral and written reports. SPRING.
- 12.799 THESIS SEMINAR IN BUSINESS ADMINISTRATION (3-6)

CHEMISTRY

Associate Professor: LEO SCHUBERT (Chairman).

Lecturers: DANIEL BANES; ROBERT M. BROWNELL; EDWARD S. JOSEPHSON; LAWRENCE KUSHNER.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science, Bachelor of Arts. See page 56 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in chemistry are advised to complete 15.110 and 15.111 General Chemistry¹ and ² (8) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

8 hours of this requirement may be satisfied by completion of 15.110 and 15.111 General Chemistry¹ and ² as a part of the University requirements.

Related course 4 hours

Laboratory course in biology.

Tool courses 6 hours

41.110 College Algebra (3) and 41.140 Plane Analytic Geometry (3).

BACHELOR OF SCIENCE

Major courses 40 hours

15.110 and 15.111 General Chemistry¹ and ² (8), 15.200 and 15.201 Quantitative Analysis¹ and ² (8), 15.300 and 15.301 Organic Chemistry¹ and ² (8), 15.400 and 15.401 Physical Chemistry¹ and ² (8), 8 additional hours in other 400-level courses.

Related courses 12-24 hours

Laboratory course in biology (4), 51.200 and 51.201 General Physics¹ and ² (8) are required, 12 hours in German are recommended.

Tool courses 12 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6).

BACHELOR OF ARTS

Major courses 32 hours

15.110 and 15.111 General Chemistry¹ and ² (8), 15.200 and 15.201 Quantitative Analysis¹ and ² (8), 15.300 and 15.301 Organic Chemistry¹ and ² (8), 8 additional hours in other 400-level courses.

Related courses 12 hours

Laboratory course in biology (4), 51.200 and 51.201 General Physics¹ and ² (8).

Tool courses 6 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3).

ELECTIVES—

Associate in Arts	2-6 hours
Bachelor of Science	8-32 hours
Bachelor of Arts	34-46 hours

Undergraduate Courses

- 15.100 PHYSICAL SCIENCE: MATTER (3) Principles and concepts of chemistry with applications to daily living. Study of matter, its transformations, properties and uses. Demonstrations, no laboratory. SUMMER. FALL. SPRING.
- 15.110 GENERAL CHEMISTRY¹ (4) The scientific method through study of the laws of chemistry. Atomic, kinetic, and ionization theories, states of matter, gas laws, solutions, study of some elements. 3 hours of lecture, 3½ hours of laboratory. Laboratory fee, parttime students, \$5. SUMMER. FALL.
- 15.111 GENERAL CHEMISTRY² (4) The Periodic Law and chemical equilibrium. Study of the metals and their compounds. Radiochemistry, organic chemistry, and biochemistry. Laboratory work in qualitative analysis. *Prerequisite*, 15.110. 3 hours of lectures, 3½ hours of laboratory. Laboratory fee, parttime students, \$5. SUMMER. SPRING.
- 15.200 QUANTITATIVE ANALYSIS¹ (4) Theory of analytical chemistry with emphasis on volumetric analysis. The balance. Analysis of representative samples. *Prerequisite*, 15.111. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$5. 1953 FALL.
- 15.201 QUANTITATIVE ANALYSIS² (4) Theory of gravimetric analysis. Instrumental methods of analysis such as spectrophotometry, electrometric titrations, electrodeposition, and ion exchange. Laboratory work in these techniques. Review of qualitative analysis. *Prerequisite*, 15.200. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 SPRING.
- 15.300 ORGANIC CHEMISTRY¹ (4) Chemistry of carbon compounds. Aliphatic compounds and derivatives. Structure and mechanism theory. Laboratory theory and practice in synthesis. *Prerequisite*, 15.111. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. FALL.
- 15.301 ORGANIC CHEMISTRY² (4) The aromatic hydrocarbons and derivatives. Isocyclic and heterocyclic compounds. Stereoisomerism and carbohydrates. Laboratory work in qualitative organic analysis. *Prerequisite*, 15.300. 3 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. SUMMER. SPRING.
- 15.400 PHYSICAL CHEMISTRY¹ (4) Principles of theoretical chemistry and laws governing chemical reactions. The states of matter, properties of solutions, thermodynamics and homogenous equilibrium. *Prerequisites*, 15.201, 51.201 *General Physics*², and 41.221 *Differential and Integral Calculus*². 3 hours of lectures, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1954 FALL.
- 15.401 PHYSICAL CHEMISTRY² (4) Phase rule, chemical kinetics, electrical conductance, electromotive force, atomic structure, and radioactivity. *Prerequisite*, 15.400. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1955 SPRING.
- 15.410 ORGANIC PREPARATIONS (4) Preparative methods of organic chemistry with attention directed to special techniques such as vacuum distillation, chromatography, and extractions. Reference to the original literature. *Prerequisite*, 15.301. 2 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. Not offered 1953-1954.
- 15.420 ADVANCED ORGANIC CHEMISTRY (4) Theoretical and systematic organic chemistry. *Prerequisite*, 15.301. 4 hours of lecture. 1954 FALL.
- 15.421 QUALITATIVE ORGANIC ANALYSIS (4) Lectures and laboratory work on the identification of organic compounds through systematic procedures. *Prerequisite*, 15.301. 2 hours of lecture, 6 hours of laboratory. Laboratory fee, parttime students, \$10. 1955 SPRING.
- 15.423 ADVANCED INORGANIC CHEMISTRY (4) Descriptive inorganic chemistry including the periodic table, radioactivity, the elements, and coordination compounds. Hydrolysis, acids, bases, and related matters. *Prerequisite*, 15.201. 4 hours of lectures. Not offered 1953-1954.
- 15.430 BIOCHEMISTRY¹ (4) Fats, proteins, carbohydrates and their digestion. Enzymes and vitamins. Chemotherapy and immunology. *Prerequisite*, 15.301. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1953 FALL AND ALTERNATE YEARS.
- 15.431 BIOCHEMISTRY² (4) Biological antagonists, respiration, metabolism of organic and inorganic foods. Hormones and nervous system. Nutrition and medicine. *Prerequisite*, 15.430. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$10. 1954 SPRING AND ALTERNATE YEARS.

COMMUNICATION

Associate Professors: WILLETT MAIN KEMPTON (Chairman); THEODORE H. LEVIN.

Assistant Professor: H. D. CRAWFORD.

Adjunct Professors: JOHN BATTISON; FLOYDE E. BROOKER; JAMES R. MOCK; FRANK H. MORTIMER.

Professorial Lecturers: LUDWIG CAMINITA, JR.; FRANCIS P. DOUGLAS; STANLEY FIELD; J. STANLEY MCINTOSH; PAUL R. HILL.

Lecturers: LAWRENCE BECKERMAN; ROBERT A. J. BORDLEY; WILLIAM BROWN; JOHN CALLAGHAN; DAVID DAVIS; FRANKLIN DUNHAM; EDWIN HALBERT; ANNA HYER; HOWARD L. KANY; JOHN MCLEOD; JAMES J. MCPHERSON; HAROLD STEPLER; EDWIN TRIBBLE; THOMAS WINSHIP; WILLIAM A. WOOD.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science in Social Sciences.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in communication are advised to complete 19.100 Structure of the American Economy (3), 53.200 American Government: National (3), and 57.200 General Psychology (3), as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

17.320 Introduction to Journalism (3), 17.360 Introduction to Television and Radio (3), and 6 additional hours (including a writing course) in journalism or television and radio.

Related courses 6 hours

BACHELOR OF SCIENCE IN SOCIAL SCIENCE (with major in communication media, journalism, public relations, or television and radio).

Major courses 30 hours

Related courses 18 hours

ELECTIVES—

Associate in Arts 6-10 hours

Bachelor of Science in Social Science 30-34 hours

GRADUATE DEGREES—The department offers programs leading to the degree of Master of Arts in communication. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

JOURNALISM

17.320 (formerly 35.300) INTRODUCTION TO JOURNALISM (3) Modern news, feature, editorial, column, advertising, and publicity writing in their practical application to today's newspapers, magazines, and trade publications. Career opportunities and requirements. *Prerequisite to advanced journalism courses.* SUMMER. FALL. SPRING.

17.420 (formerly 35.400) NEWS REPORTING (3) Basic instruction in news writing. Types of news stories. Emphasis on practical work conditions similar to those encountered in newsrooms. Professional procedures. FALL.

TELEVISION AND RADIO

17.360 (formerly 71.300) INTRODUCTION TO TELEVISION AND RADIO (3) Organization and principles of broadcasting and telecasting operations; responsibilities and activities of each department; lectures and demonstrations by key personnel from the profession. *Prerequisite to other television and radio courses.* FALL.

- 17.460 TELEVISION AND RADIO SPEAKING (3) (*formerly 71.400 Television and Radio Speech*) Effective microphone speaking through individual analysis; preparation and delivery of speech assignments—news, sports, commercials, and special events; introduction to acting and announcing. Laboratory fee, parttime students, \$3. FALL.
- 17.461 (*formerly 71.401*) TELEVISION AND RADIO WRITING (3) Practice in writing various types of continuities; commercials, interviews, reports of special events, and introductions. Survey of the technical requirements for acceptable formats. FALL.
- 17.462 (*formerly 71.402*) TELEVISION AND RADIO MUSIC (3) Function of music and sound effects in radio and television: planning, clearance, copyright, talent selection; sources of recorded and live sound effects and incidental music. 1953 FALL AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

COMMUNICATION MEDIA

- 17.500 HISTORY AND PRINCIPLES OF COMMUNICATION (3) Evolution and development of newspapers, magazines, radio, motion pictures, and television as communication media. Influence of historic backgrounds on contemporary principles and practices. SPRING.
- 17.505 (*formerly 17.550*) HISTORY OF MOTION PICTURES (3) Motion pictures from their invention to the present. Films emphasize technical and aesthetic developments for students in history, sociology, and communication. Laboratory fee, all students, \$3. FALL.
- 17.510 (*formerly 17.530*) VISUAL MEDIA IN COMMUNICATION¹ (3) Basic characteristics of problems in communication. Analysis of audio-visual presentation of ideas in education, advertising, and public relations. FALL.
- 17.511 (*formerly 17.531*) VISUAL MEDIA IN COMMUNICATION² (3) Advanced study and practical application of pictorial communication principles as related to advertising, education, and information. Seminar type discussion. *Prerequisite*, 17.510. SPRING.
- 17.512 (*formerly 17.532*) GRAPHIC ARTS IN COMMUNICATION¹ (3) Distinguishing characteristics of type, affinity of type faces, composition, layout, typographic design. Printing, photoengraving, gravure, and lithography. Basic information for planning pamphlets, books, folders. FALL.
- 17.513 GRAPHIC ARTS IN COMMUNICATION² (3) Analysis of printing for effectiveness in layout and design, use of illustrations. Laboratory work in the production of books, pamphlets, and folders. SPRING.
- 17.514 AUDIO-VISUAL MATERIALS AND TECHNIQUES IN EDUCATION (3) Workshop course in selection and use of audio-visual materials for instructional purposes. Administrative problems; techniques and equipment as effective aids in teaching. Not offered 1953-1954.
- 17.600 COMMUNICATION LAW (3) Current legal problems and controls in journalism, visual communication, television and radio. Analysis of libel suits, copyright infringements. No previous knowledge of law required. FALL.

JOURNALISM

- 17.520 (*formerly 35.500*) EDITING: NEWSPAPERS AND PERIODICALS (3) Training to develop editorial judgment and skills in processing material for publication. Study of problems and practices in making assignments, editing copy, handling departments. SPRING.
- 17.521 (*formerly 35.501*) EDITORIAL INTERPRETATION (3) Practice in writing editorials on current subjects. Publication opportunities. Study of newspaper, trade publications, and magazine editorial policies. Analysis of editorial columns and interpretive reviews. FALL.
- 17.522 (*formerly 35.502*) SMALL NEWSPAPERS (3) Study and discussion of special problems of community and organization dailies and weeklies, including non-metropolitan and suburban newspapers. SPRING.
- 17.523 (*formerly 35.503*) NEWS AND FEATURE PHOTOGRAPHY (3) Study of photographic requirements and techniques of newspapers, magazines, syndicates, and trade publications. Training in professional planning, taking, and editing of news and feature photographs. FALL.
- 17.524 (*formerly 35.504*) NEWS REPORTING: ADVANCED (3) Problems of specialized reporting. Washington and foreign news correspondence. Students cover assignments in these fields, and carry on individual research projects. SPRING.
- 17.525 FEATURE ARTICLE WRITING (3) Practice in writing feature articles for newspapers, magazines, and business publications. Study of markets and slanting techniques. Preparation, discussion, and revision of articles for publication. FALL.
- 17.526 FEATURE ARTICLE WRITING: ADVANCED (3) Preparation, discussion, and revision of articles for publication by magazines, business publications, syndicates, and newspapers. Author-editor relationship for non-fiction books. *Prerequisite*, 17.525. FALL.

- 17.527 (formerly 35.507) FREEDOM OF INFORMATION (3) Investigation of access and barriers to information at local, state, national, and international levels. Information access rights and responsibilities of communication media. Individual research projects. FALL.
- 17.528 TELEVISION AND RADIO NEWSWRITING (3) Newscasting functions and organization of station and network news staffs. Emergency and special events activities. Practical experience using actual wire copy and source materials. SPRING.

PUBLIC RELATIONS

- 17.540 (formerly 59.500) PUBLIC RELATIONS: THEORY AND PRACTICE (3) Survey of public information and public relations programs. Media employed for mass communication—advertising, press, radio, periodicals, pamphlets, films. Case study of current practices. SUMMER. FALL. SPRING.
- 17.541 (formerly 59.501) PUBLICITY WRITING (3) Practical writing techniques for public relations, publicity, and promotional programs. Preparation of articles for newspapers, magazines, and trade journals; radio scripts; promotional booklets, press relations. FALL.
- 17.542 (formerly 59.502) PROMOTIONAL CAMPAIGNS (3) Case studies of promotional methods for social organizations, business, and government. Analysis of specific public relations problems. Development of a promotional campaign by each student. SPRING.
- 17.543 PUBLIC SERVICE BROADCASTING (3) (formerly 59.503 *Public Information Broadcasting and Telecasting*) Television and radio as media for public relations. Problems of various organizations in arranging public service broadcasts; spot announcements, interviews, sponsored versus sustaining programs. SPRING.
- 17.544 (formerly 59.504) PUBLIC RELATIONS IN GOVERNMENT (3) Analysis of objectives and problems of governmental agencies in their relations with the public. Influence of public relations on efficiency of administration. SPRING.
- 17.545 (formerly 59.505) PUBLIC RELATIONS IN BUSINESS (3) Media and techniques for public relations; emphasis on business and industrial relationships with their various publics—such as labor, trade, dealer, customer, stockholder, and community. SUMMER. SPRING.
- 17.640 PUBLIC RELATIONS POLICIES (3) Formulation of policies for long-range public relations programs in business, trade associations, social and civic organizations, federal agencies. Methodology in implementing policy and evaluating results. 1954 FALL AND ALTERNATE YEARS.

TELEVISION AND RADIO

- 17.560 (formerly 71.500) TELEVISION AND RADIO DRAMATIC WRITING¹ (3) Special techniques required for dramatic scripts—sketches, originals, adaptations. Emphasis on plotting, characterization, dialogue, pacing, mood. Use of music and sound for dramatic effects. FALL.
- 17.561 (formerly 71.501) TELEVISION AND RADIO DRAMATIC WRITING² (3) Advanced study in the practical application of principles in writing all types of dramatic television and radio scripts. *Prerequisite*, 17.560. SPRING.
- 17.562 (formerly 71.502) TELEVISION WRITING: ADVANCED (3) Preparation of written materials for television. Differences between television and radio scripts; research methods used for writing commercials, informational programs, and dramatic shows. *Prerequisite*, 17.641 or equivalent. SPRING.
- 17.564 (formerly 71.504) TELEVISION AND RADIO ANNOUNCING (3) Advanced microphone training. On-air, off-air announcing duties and responsibilities. Sustaining, commercial announcing; narration, interviews, reporting, sports and audience participation. Live and filmed commercials. *Prerequisite*, 17.460 or equivalent. Laboratory fee, parttime students, \$3. SPRING.
- 17.566 (formerly 71.506) TELEVISION AND RADIO ACTING¹ (3) Studio practice in casting, rehearsing, acting; auditions, signals, characterizations, dialects, pacing, memorization. Study of microphone techniques; relation of actor to other elements in production. Laboratory fee, parttime students, \$3. FALL.
- 17.567 (formerly 71.507) TELEVISION AND RADIO ACTING² (3) Continuation of 17.566. Laboratory fee, parttime students, \$3. SPRING.
- 17.568 (formerly 71.508) TELEVISION AND RADIO PRODUCTION AND DIRECTION¹ (3) Production problems: budget, scripts, casting, rehearsals, timing, sound, music, visuals, showmanship; producer-director's relationship to talent and engineering. Practical application under studio conditions. Laboratory fee, parttime students, \$3. FALL.
- 17.569 (formerly 71.509) TELEVISION AND RADIO PRODUCTION AND DIRECTION² (3) Continuation of 17.568. Laboratory fee, parttime students, \$3. SPRING.
- 17.570 (formerly 71.510) TELEVISION AND RADIO MANAGEMENT (3) Broadcasting as a business; network affiliation versus independent operation; training a station staff; labor problems; functions and inter-relationships of broadcasting departments; standards of practice. SPRING.

- 17.571 (formerly 71.511) TELEVISION AND RADIO ADVERTISING (3) Television and radio advertising and selling techniques. Advertising agencies—organization and functions; ratings, rate cards, contracts; commercial announcements, programs; audience, market, product analysis; sales campaigns. SPRING.
- 17.572 (formerly 71.512) TELEVISION PROGRAMMING (3) Audience reactions; program building, traffic, scheduling for stations and networks. Procedures used in studio and remote productions. Usefulness of films and visual materials. Studio observation. FALL.
- 17.573 (formerly 71.513) TELEVISION WORKSHOP (3) Advanced training in all phases of television studio production, including script writing, acting, directing, and producing. Enrollment limited; written application required in advance. Laboratory fee, all students, \$30. FALL.
- 17.574 (formerly 71.514) TELEVISION PRODUCTION LABORATORY (3) Experimental program formats and research in studio production methods. Application of dramatic principles to television situations. Integration of motion picture, slides, and special visual effects. Enrollment limited; written application required in advance. Laboratory fee, all students, \$30. SPRING.
- 17.575 (formerly 71.515) VIDEO AND FILM PRESENTATION (3) Use of visual aids and films for television; theories of visual presentation. Animation and special effects. Camera operation and production by students in studio. Laboratory fee, all students, \$15. FALL.
- 17.576 TELEVISION FILM PRODUCTION (3) Advanced course in production and use of motion pictures in television. Laboratory training in editing and sound recording. Actual preparation of films for television stations. *Prerequisite, permission of departmental chairman.* Laboratory fee, all students, \$15. SPRING.
- 17.660 (formerly 71.600) TELEVISION AND RADIO IN EDUCATION (3) Methods of using radio and television as teaching media. Administrative problems, sources of programs; creation of instructional materials for curricular needs on all levels. 1954 FALL AND ALTERNATE YEARS.
- 17.661 TEACHING WITH TELEVISION (3) Nature of educational telecasts. Scope of impact at all school levels; integration with curricula. Adult viewing; courses for college credit. Programming trends in educational telecasting. 1953 FALL AND ALTERNATE YEARS.

SEMINARS

- 17.720 (formerly 35.700) SEMINAR IN JOURNALISM (3)
- 17.740 (formerly 59.700) SEMINAR IN PUBLIC RELATIONS (3)
- 17.760 (formerly 71.700) SEMINAR IN TELEVISION AND RADIO (3)
- 17.799 THESIS SEMINAR IN COMMUNICATION (3-6)

DISTRIBUTED SCIENCES

DEGREE PROGRAMS

The University offers a program leading to the degree of Bachelor of Science with major in distributed sciences for students who plan to teach the natural sciences in secondary schools or who wish to receive a broader background in science at the undergraduate level than is afforded by the usual Bachelor of Science degree. Students majoring in distributed sciences select their major courses primarily from offerings in the fields of biology, chemistry, geology, mathematics, and physics; in certain cases they may select appropriate courses from the areas of anthropology, geography, and psychology.

Students interested in a program in distributed sciences should consult the chairman of any of the natural sciences departments.

UNIVERSITY REQUIREMENTS38-42 hours

DEPARTMENTAL REQUIREMENTS—

Major courses 60 hours

At least 24 hours in one science, at least 16 hours in another, and at least 8 hours in two other sciences.

Tool courses 6-12 hours

Mathematics.

ELECTIVES12-22 hours

ECONOMICS

Professors: NATHAN A. BAILY; ERNST CORRELL; FRITZ KARL MANN (Chairman 1953-1954); LOUISE SOMMER (Visiting); MELVILLE J. ULMER (Chairman 1954-1955).

Adjunct Professors: PETER G. FRANCK; LUDWIG M. HOMBERGER; GUSTAV PECK; HOWARD S. PIQUET; AMOS E. TAYLOR; GEORGE A. TESORO; OSCAR WEIGERT.

Associate Professor: ALFRED SHERRARD; THEODORE H. LEVIN.

Professorial Lecturers: RUSSELL S. BERNHARD; GEORGE W. BROOKS; HERBERT FURTH; RAYMOND GOLDSMITH; CHARLES MERWIN; SIMON NAIDEL; HOBART S. PERRY; MYLES E. ROBINSON; MURRAY ROSS; FRANK TAMAGNA; HASKELL T. WALD.

Lecturers: EDWARD ALLEN; EDWARD AMES; MONROE BURK; MANUEL EBER; ALEXANDER ECKSTEIN; PAUL FISHER; DONALD HORTON; BENJAMIN KAPLAN; MAXWELL KAUFMAN; ROBERT C. KOVARIK; MALCOLM D. MILLER; EMIL G. SPITZER; MORRIS WEISZ.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science in Social Science, Bachelor of Arts.

UNIVERSITY REQUIREMENTS38-42 hours

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS.

Major courses 6 hours
Including 19.202 Introduction to Economic Analysis (3).

Related courses 6 hours

BACHELOR OF SCIENCE IN SOCIAL SCIENCE and

BACHELOR OF ARTS.

Major courses 24 hours
19.202 Introduction to Economic Analysis (3), 19.301 Intermediate Economic Theory (3), and 18 additional hours in courses at the 300-level or above.

Related courses 18 hours

Tool courses 3-6 hours
69.200 Fundamentals of Statistics (3) for the degree of Bachelor of Science and either 3 hours of statistics or 6 hours of language for the degree of Bachelor of Arts.

ELECTIVES—

Associate in Arts12-16 hours

Bachelor of Science in Social Science39-43 hours

Bachelor of Arts36-40 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in economics and in economic history. For information about requirements apply to the Dean of the Graduate School.

Undergraduate Courses

19.201 (formerly 19.100) STRUCTURE OF THE AMERICAN ECONOMY (3) Institutional framework. Fundamental aggregative relationships of income, consumption, and investment. Includes resources, agriculture, national income, business cycles, public and private finance, employment programs, international relations. Not open to students who have completed 19.201 Principles of Economics², formerly offered. SUMMER. FALL. SPRING.

19.202 INTRODUCTION TO ECONOMIC ANALYSIS (3) Elementary theory of price, monopolistic competition, income distribution, foreign trade, public policy, and comparative economic systems. *Prerequisite*, 19.201. Not open to students who have completed 19.200 Principles of Economics¹ or 19.202 Economics of the Firm and Industry, formerly offered. SUMMER. FALL. SPRING.

- 19.300 EVOLUTION OF ECONOMIC INSTITUTIONS (3) Growth of economic civilization in the western world as expressed in its institutions. Functions, underlying concepts, and place in the social, cultural, and political life. FALL.
- 19.301 INTERMEDIATE ECONOMIC THEORY (3) Continuation of 19.202. Theory of relative prices and income distribution under perfect and imperfect competition. *Prerequisite*, 19.202. SUMMER. FALL. SPRING.
- 19.302 MONEY AND BANKING (3) (*formerly Financial Organization of Society*) The role of money and credit in the economy. Organization of the banking system and related institutions in the U. S. Introduction to monetary theory and credit control. SUMMER. FALL. SPRING.
- 19.400 INTERNATIONAL ECONOMICS (3) Basic factors in the functioning of the world economy, and economic principles underlying international trade, international payments, determination of exchange rates, and capital transfers. *Prerequisite*, 19.202. FALL.
- 19.401 CONSUMER ECONOMICS (3) The structure of consumption. Consumer income and income distribution. Installment buying. Channels of distribution of consumer goods. Cost of distribution. SPRING.
- 19.402 ECONOMICS OF PUBLIC FINANCE (3) Principles of budgeting, public spending, debt management, and tax policy. Comparative survey of fiscal institutions in the U. S. and abroad. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

ECONOMIC THEORY

- 19.510 HISTORY OF ECONOMIC THOUGHT¹: EARLY PERIOD (3) Social and economic theories from the Greek philosophers to 18th century physiocrats examined in relation to dominant and receding institutions. FALL. SUMMER.
- 19.511 HISTORY OF ECONOMIC THOUGHT²: MODERN PERIOD (3) Economic problems and their solutions from the physiocrats and classicists to the marginal utility and general equilibrium schools, including institutional and socialist approaches. SUMMER. SPRING.
- 19.512 EQUILIBRIUM ANALYSIS¹: THEORY OF PRICES AND PRODUCTION (3) Advanced analysis of demand curves, supply curves, and the equilibrium of the consumer, the firm, and the industry under various market situations. SUMMER. FALL.
- 19.513 EQUILIBRIUM ANALYSIS²: THEORY OF INCOME DISTRIBUTION (3) Application of general price theory to functional distribution. Demand for, and supply of, labor and other productive services. Time preference and liquidity preference. SUMMER. SPRING.
- 19.514 THEORY OF INCOME AND EMPLOYMENT (3) Analysis of economic aggregates; saving, investment, consumption, national income, and employment. The multiplier and the acceleration principle. Role of prices, money supply, and interest rates. SUMMER. SPRING.
- 19.515 THEORY OF BUSINESS FLUCTUATIONS (3) Types of business fluctuations and approaches to their analysis. History of fluctuations in the U. S. since 1929. Cyclical problems and stabilization proposals. FALL.
- 19.516 THEORY OF ECONOMIC DEVELOPMENT (3) Development of capitalism and its long-term outlook. Role of business enterprise, technology, population growth, international relations, financial institutions, and the relations between capital and labor. SPRING.
- 19.517 BUSINESS CYCLE POLICIES (3) Public and private policies relating to the stabilization of business: compensatory spending, incentive taxation, price and wage determination, inventory policy, monopoly and competition. SUMMER.
- 19.518 NATIONAL INCOME AND WEALTH: SOCIAL ACCOUNTING (3) Concepts, sources, and methods used in measuring and analyzing national income, income payments, national product, capital formation, consumer expenditures, saving, and wealth. FALL.
- 19.610 MATHEMATICAL ECONOMICS (3) Application of mathematical reasoning to the study of economics, with particular attention to the analysis of microeconomic relations and their logical implications. *Prerequisite*, 41.220 *Differential and Integral Calculus*.¹ FALL.
- 19.611 CONSTRUCTION OF ECONOMIC MODELS AND ECONOMIC ANALYSIS (3) Models as a tool of economic analysis. Discussion of some current models and their relation to economic projections and policy decisions. SPRING.
- 19.612 ECONOMIC THEORY¹: PSYCHOLOGICAL AND INSTITUTIONAL APPROACHES (3) Comparison of underlying assumptions and logic with those of classical and neo-classical economics. Socialistic economics and other theories, including the aggregative approach of the Keynesians. FALL.
- 19.613 ECONOMIC THEORY²: PSYCHOLOGICAL AND INSTITUTIONAL APPROACHES (3) Continuation of 19.612. SPRING.
- 19.614 THEORY OF WELFARE ECONOMICS (3) Development of standards for appraising welfare and their application to problems of economic control. Measurability and comparability. Relation of economic welfare to other social objectives. FALL.
- 19.615 ECONOMICS OF TECHNOLOGY (3) Causes, conditions, and economic consequences of technological change. Public control of technological change. Emphasis on atomic developments. SPRING.

- 19.616 THEORY OF AGGREGATES (3) Determination of income and employment in the economy as a whole. Influence of the propensity to consume. Investment, liquidity preference, money supply, and the interest rate. FALL.
- 19.617 PARETO, KEYNES, AND SCHUMPETER (3) Survey, comparison, and appraisal of their contributions to present-day economics. SPRING.

MONEY, CREDIT, AND BANKING

- 19.520 MONETARY AND BANKING THEORY (3) (*formerly Money and Banking*) Money and credit as factors influencing income, prices, employment, and interest rates. The creation of credit and its control. Velocity of circulation. Liquidity preference. SPRING.
- 19.521 CORPORATION FINANCE (3) Financing new and established corporate enterprises. Corporate securities. Financial plans. Marketing of securities. Short term financing. Reorganization and liquidation. *Prerequisite*, 3.201 *Introduction to Accounting*², and 19.302. FALL.
- 19.522 PRINCIPLES OF INVESTMENT BANKING (3) Functions and techniques of investment banking. Underwriting, competitive bidding, private negotiation, securities exchanges, the over-the-counter market, government regulation. FALL.
- 19.523 INVESTMENT ANALYSIS (3) Investment theories and policies. Problems of the investor. Sources of information. Investment instruments. Portfolio construction and management. *Prerequisite*, 19.521. SPRING.
- 19.524 COMMERCIAL BANKING POLICIES (3) Bank liquidity principles. Short-term lending practices, the term loan; agricultural, consumer, and mortgage credit. Structure of interest rates. Bank capital, earnings, and supervision. SPRING.
- 19.621 THEORY AND MANAGEMENT OF CENTRAL BANKING (3) Functions of central banks. Quantitative and qualitative instruments of central banking policy. Contribution of central banks to economic and monetary stabilization. International responsibilities. FALL.

PUBLIC FINANCE

- 19.530 FISCAL THEORY (3) Government financing and fiscal control. Fiscal policies and welfare economics. How to support economic stabilization and full employment by fiscal means. *Prerequisite*, 19.402. FALL.
- 19.632 ADVANCED FISCAL THEORY (3) Discussion of selected problems of fiscal theory. Continuation of 19.530, which is prerequisite to this course. SPRING.
- 31.023 INSTITUTE ON FEDERAL TAXES (No credit). See page 75.

AGRICULTURAL AND INDUSTRIAL POLICIES

- 19.540 ECONOMICS OF AGRICULTURE (3) Factors influencing farm size, organization, and product specialization. Economics of agricultural production, prices, and public policy. FALL.
- 19.541 ECONOMICS OF AMERICAN INDUSTRY (3) Survey of principal manufacturing industries of the U. S. Emphasis on sources of data and on the development of a workable technique of industry analysis. FALL.
- 19.542 CURRENT PROBLEMS OF AMERICAN INDUSTRY (3) Principal problems facing manufacturing industries in the U. S., such as changing raw material sources, locational and pricing adjustments. Trends in public control. SPRING.
- 19.543 GOVERNMENT CONTROL OF BUSINESS (3) Objectives, methods, and techniques of government economic control. Trends in wartime and peacetime. Control through loans, subsidies, taxation, tariffs, and export programs. SPRING.
- 19.544 PUBLIC UTILITY ECONOMICS (3) Operation, organization, and rates of public utilities. Development of power production and distribution. Emphasis upon government regulation and the problems of government corporations. SUMMER.
- 19.640 CURRENT ISSUES OF AGRICULTURAL POLICIES (3) Agricultural policies in the U. S. and foreign countries. Technical developments, conservation of natural resources, prices, financing, and production control. SPRING.

LABOR POLICIES

- 19.550 HISTORY OF THE LABOR MOVEMENT IN THE U. S. (3) Causes and results of organized efforts to regulate the conditions of work and the well-being of workers. Political, economic objectives; social problems raised by the labor movement. SUMMER. FALL.
- 19.551 HISTORY OF THE EUROPEAN LABOR MOVEMENT (3) Development of the labor movement in Europe. Comparative historical view of trade union ideologies, objectives, structure, and methods. International trade union federations. SPRING.
- 19.552 LABOR AND THE ECONOMIC ORDER (3) Trends affecting the position of labor in modern society. Problems of the determination of wages, hours, working conditions, and social security. FALL.

- 19.553 CURRENT LABOR PROBLEMS¹: DOMESTIC (3) Union policies with respect to pensions, insurance, the guaranteed wage, incentive systems, profit sharing, adjustments for living costs and productivity. Non-economic provisions in labor contracts. FALL.
- 19.554 CURRENT LABOR PROBLEMS²: INTERNATIONAL (3) Comparative survey of labor problems in a selected group of foreign countries, including France, Italy, Sweden, and the United Kingdom. The International Labor Organization and other international bodies. SPRING.
- 19.555 LABOR AND THE LAW (3) Actions of legislatures, courts, and administrative agencies with respect to unions, their activities and responsibilities. Current legal problems of organized labor. FALL.
- 19.556 LABOR-GOVERNMENT RELATIONSHIP (3) Wagner and Taft-Hartley acts. The National Labor Relations Board, special federal commissions and boards, other agencies affecting wages and working conditions. FALL.
- 19.557 COLLECTIVE BARGAINING (3) Local, regional, and national collective bargaining. Theory, procedure, objectives, scope, and effects. Relationship to conciliation, mediation, arbitration, and fact-finding boards. FALL.
- 19.558 SETTLEMENT OF LABOR DISPUTES (3) Advanced course in resolving labor disputes, including collective bargaining, grievance negotiation, conciliation, mediation, arbitration, and the like. SPRING.
- 19.559 LABOR ECONOMICS (3) Labor markets and wage structure. Wage theories and policies. Labor productivity, real wages, income, employment, and unemployment. FALL.
- 19.575 LABOR RELATIONS AND THE MILITARY PROGRAM (3) Labor relations and manpower: military personnel, civil service employees, and private industry. Strikes and jurisdictional disputes. Universal military service. Deferment policy. FALL.
- 19.650 THEORY OF WAGES AND PROFITS (3) History of wage and profit doctrines. The marginal productivity theory of wages. Alternative profit theories. Interactions between wages and profits and national income. SUMMER.
- 19.651 STRUCTURE OF THE LABOR MARKET (3) Application of economic principles to the analysis of labor markets. Case studies and statistical relationships. Effects of unionism. SPRING.
- 19.652 PROTECTIVE LABOR LEGISLATION (3) Federal and state legislation on wages and hours, legislation affecting the labor supply, regulation of working conditions. FALL.

TRANSPORTATION*

- 19.560 BASIC PROBLEMS IN TRANSPORTATION AND COMMUNICATION (3) Principles governing mechanics, operation, traffic management, and regulation of all modes of transportation: rail, highway, water, air, pipelines. Principles of communication: mail, telegraph, telephone, radio, television. FALL.
- 19.561 RAIL TRANSPORTATION (3) Railroad organization, administration, operation, traffic, and finance in the U. S. Problems of consolidation and reorganization. Railroad labor. SPRING.
- 31.022 RAIL TRANSPORTATION INSTITUTE (No credit). See page 75.
- 19.562 HIGHWAY TRANSPORTATION (3) The highway system and commercial motor transportation in the U. S. Construction, administration, and finance. Economics of private automobile and truck operation. SUMMER.
- 19.563 OCEAN TRANSPORTATION (3) Economic characteristics, functions, and position of the world's ocean shipping, with particular reference to the U. S. Security and national policy aspects of the industry. FALL.
- 19.564 AIR TRANSPORTATION (3) Operation, traffic, rates, and government action in air transportation. Problems in management of air-carriers. FALL.
- 31.021 AIR TRANSPORTATION INSTITUTE (No credit). See page 75.
- 19.565 WESTERN HEMISPHERE TRANSPORTATION (3) Transportation problems in the U. S., Latin America, and Canada. Characteristics of the available means of transportation, traffic demand, and other principal issues. SUMMER.
- 31.025 FOREIGN TRANSPORTATION INSTITUTE (No credit). See page 75.
- 19.566 TRAFFIC MANAGEMENT¹ (3) Factors determining rates and services for commercial shippers. Analysis of tariffs, classification, routing of traffic, shipping documents, liability and claims. FALL.
- 19.567 TRAFFIC MANAGEMENT² (3) Economic factors underlying rate-making. Duty of carriers to establish reasonable and non-discriminatory rates and services. Routing and mis-routing of freight. SPRING.
- 31.020 INDUSTRIAL TRANSPORTATION AND TRAFFIC MANAGEMENT INSTITUTE (No credit). See page 75.
- 19.568 INTERSTATE COMMERCE LAW¹ (3) Review of the Interstate Commerce Act with emphasis upon regulatory problems, illustrated by leading decisions of the courts and the I. C. C. SUMMER.

*A limited number of Arthur Godfrey Air Fellowships for laboratory practice to qualify for private pilot's licenses are available to students specializing in transportation. Students interested apply to L. M. Homberger, 1901 F Street, N. W.

- 19.569 INTERSTATE COMMERCE LAW² (3) Statutory provisions relating to procedure and jurisdiction. I. C. C. rules of practice. Rules of evidence followed in administrative proceedings. I. C. C. code of ethics. SUMMER.
- 19.570 AIRPORTS (3) Airport organization, management, operation, and traffic, including airlines operation, traffic control, and weather services. Questions of location and construction. SPRING.
- 19.571 TRENDS AND PROBLEMS IN TRANSPORTATION (3) Current issues facing the various modes of transportation, in traffic, operation, and regulation. *Prerequisite*, 19.560. SPRING.
- 19.572 PRINCIPLES AND PROBLEMS OF MILITARY TRANSPORTATION (3) Organization, coordination of military transportation. Relations with civilian agencies. Use of civilian carriers. Capabilities of military transportation systems. SPRING.
- 19.670 TRANSPORTATION POLICIES (3) Advanced course on government, carrier, and shipper policies. Interrelationships between transportation policies and those governing other economic factors. FALL.

INTERNATIONAL ECONOMICS

- 19.580 INTERNATIONAL ECONOMIC RELATIONS (3) National policies related to tariffs, reciprocal trade agreement programs, raw materials, cartels, and foreign assistance. *Prerequisite*, graduate work in economic theory. FALL.
- 19.581 FOREIGN ECONOMIC POLICIES: PROBLEMS CONFRONTING THE U. S. (3) Formulation and execution of foreign economic policies and programs. International economic and trade position of the U. S. Foreign assistance and underdeveloped areas programs. *Prerequisite*, permission of departmental chairman. FALL.
- 19.582 ECONOMIC PROBLEMS: LATIN AMERICA (3) Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, and prospects of economic advancement. FALL.
- 19.583 ECONOMIC PROBLEMS: WESTERN EUROPE (3) Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, and prospects of economic advancement. SPRING.
- 19.584 ECONOMIC PROBLEMS: SOVIET UNION (3) Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, and prospects of economic advancement. FALL.
- 19.585 ECONOMIC PROBLEMS: MIDDLE EAST (3) Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, and prospects of economic advancement. SPRING.
- 19.586 ECONOMIC PROBLEMS: ASIA (3) Economic geography, population, government organization, public finance, currency, foreign trade, balance of payments, foreign investments, and prospects of economic advancement. SPRING.
- 19.587 STRUCTURE AND OPERATION OF THE SOVIET ECONOMY (3) The national planning structure and its evolution. Limitations, capabilities, and economic potential of the U. S. S. R. FALL.
- 19.588 COMPARATIVE FOREIGN ECONOMIC POLICIES (3) Lectures by foreign nationals on the international economic position and policies of principal trading countries. Significance of these policies to the U. S. SPRING.
- 19.590 COMPARATIVE ECONOMIC SYSTEMS (3) Principles governing pricing, income distribution, productivity, investment, economic stability, and growth under capitalism, democratic socialism, and totalitarian socialism. *Prerequisite*, 19.301. FALL.
- 19.680 THEORY OF INTERNATIONAL TRADE (3) Theories of international trade: gain from trade, income and international balances, exchange rate stability, and alternative monetary standards. Basic policy issues. *Prerequisite*, 19.580. SPRING.
- 19.681 THEORY OF INTERNATIONAL FINANCE (3) Modern theories concerning price levels, balance of trade, and capital movements. Exchange restrictions and regulations. The International Bank and International Monetary Fund. *Prerequisite*, 19.400 and 19.520. SPRING.

SEMINARS

- 19.710 SEMINAR IN ECONOMIC THEORY¹ (3) Advanced analysis of problems in the theory of value and distribution, welfare economics, and the theory of economic development. Discussion and supervised research. *Prerequisite*, permission of instructor. FALL.
- 19.711 SEMINAR IN ECONOMIC THEORY² (3) Advanced analysis of problems in the theory of employment and income, dynamic economics, and business fluctuations. Discussion and supervised research. *Prerequisite*, permission of instructor. SPRING.
- 19.760 SEMINAR IN TRANSPORTATION (3) FALL. SPRING.
- 19.761 THESIS SEMINAR IN TRANSPORTATION (3) FALL. SPRING.
- 19.780 SEMINAR IN INTERNATIONAL FINANCE (3) Current trends; operation of international financial agencies; recovery programs. *Prerequisite*, permission of instructor. FALL.
- 19.799 THESIS SEMINAR IN ECONOMICS (3-6)

EDUCATION

Professor: SAMUEL ENGLE BURR, JR. (Chairman).

Assistant Professors: ELOISE NELSON MAGAW; GLADYS V. JORGENSEN.

Professorial Lecturer: SARAH C. SAUNDERS.

Lecturers: WILMER F. BENNETT; LOUISE H. BULL; BERNEICE B. CHAMBERS; HAROLD GOLDSTEIN; RICHARD R. HUTCHESON; ROBERT N. WALKER; WILLIAM R. WOOD; IRENE B. YOUNG.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Undergraduate students who plan to become teachers in secondary schools should major in the field in which they plan to teach. They should complete 57.200 General Psychology (3) and as many courses in education as may be required for teacher certification in the state in which they intend to teach. The requirement in education varies from state to state but usually is 18-24 hours. A student interested in preparing for secondary school teaching should consult the chairman of the Department of Education and the chairman of the department in which he wishes to major for information concerning the requirements applicable to his case.

The department offers programs leading to the degree of Bachelor of Science with major in elementary education for students who plan to become teachers in elementary schools. The requirements are as follows:

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in elementary education are advised to complete 57.200 General Psychology (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

Major courses 24 hours

Related courses 12 hours

ELECTIVES 48-52 hours

GRADUATE DEGREES—The department offers programs leading to the degree of Master of Arts in Education. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

- 21.100 **INTRODUCTION TO COLLEGE¹: PROBLEMS OF SELF-DISCOVERY AND SELF-DIRECTION** (1) Courses planned to help the student to achieve mature physical, social, intellectual, emotional, and spiritual habit patterns and to deal with problems of adult life in the University, in the community, and in the contemporary world. Not offered 1953-1954.
- 21.101 **INTRODUCTION TO COLLEGE²: PROBLEMS OF SELF-DISCOVERY AND SELF-DIRECTION** (1) Continuation of 21.100. Not offered 1953-1954.
- 21.200 **INTRODUCTION TO EDUCATION** (3) Survey and comparison of schools of thought and the nature, objects, and functions of American education. Attention to the significance of the purposes of the schools. *Prerequisite to all other courses in the department.* FALL. SUMMER.
- 21.300 **DEVELOPMENT OF THE ELEMENTARY SCHOOL CHILD** (4) Growth and development of the elementary school child. Consideration of physical, mental, sociological, psychological, and moral phases and their interrelation. The role of the school in guiding such development. FALL. 1955 SUMMER.
- 21.301 **ADOLESCENT DEVELOPMENT** (4) Physiological, sociological, and psychological factors of adolescent growth and development. Freedom and independence of choice, heterosexual interests, individual responsibility. Motivation and values in education. FALL.
- 21.310 **HISTORY OF EDUCATION IN AMERICAN CULTURE** (3) European backgrounds of American education. Distinctive patterns since colonial times. Social, economic, religious, scientific, moral, political, patriotic, legal, and intellectual forces that have influenced education. Study of individual thinkers. SUMMER. FALL.
- 21.320 **PSYCHOLOGY OF EDUCATION** (3) Fundamental psychological problems encountered in education. Nature and control of learning process; theories of motivation; development of skills and knowledge; creative learning and critical thinking. *Prerequisite, 57.200 General Psychology.* SUMMER. SPRING.

- 21.340 THE SECONDARY SCHOOL CURRICULUM (4) Development, organization, and operation of the secondary school curriculum particularly as related to adolescent needs, the nature of the learning process, and the contemporary social scene. Required of all students planning to teach in secondary school. *Prerequisite*, 21.301. SPRING.
- 21.342 METHODS OF TEACHING IN SECONDARY SCHOOLS: SEMINAR (2) Study of teaching methods in particular specialized subject-matter fields as education, art, business education, driver education, English and speech, mathematics, modern languages, natural sciences, nursing education, physical education, social sciences. *Prerequisite*, permission of departmental chairman. FALL.
- 21.343 METHODS OF TEACHING IN SECONDARY SCHOOLS: SEMINAR (2) Continuation of 21.342. SPRING.
- 21.350 ELEMENTARY SCHOOL CURRICULUM (4) Program of the modern elementary school, grades 1 through 6. Nature of the learning process, needs of young children, and the larger concept of elementary education. Includes observation in elementary schools, lecture and discussion periods. SPRING. 1954 SUMMER.
- 21.352 METHODS IN ELEMENTARY SCHOOLS (2) Intensive study of the methods used in teaching in modern elementary schools. The over-all aspect of methods will be considered rather than extended study of methods in particular subjects. *Prerequisite*, permission of departmental chairman. FALL.
- 21.353 METHODS OF TEACHING READING AND ARITHMETIC IN ELEMENTARY SCHOOLS (2) Specialized course in elementary school methods. Should follow 21.352. *Prerequisite*, permission of departmental chairman. SPRING.
- 21.410 PHILOSOPHY OF EDUCATION (3) Course for advanced undergraduate students in the processes, purposes, and methods of education, with special reference to the organization of the school and its curriculum. *Prerequisite*, permission of the instructor. SUMMER. SPRING.
- 21.430 INTRODUCTION TO SPEECH PATHOLOGY (3) Causes and characteristics of speech defects. Methods of speech examination and introduction to therapy. Fee, all students, \$5. 1954 FALL.
- 21.440 PRINCIPLES OF EDUCATION (3) A study of the basic principles of education in the U. S. Elementary, secondary, and higher education are included. FALL.
- 21.441 PRINCIPLES OF EDUCATION (3) Continuation of 21.440. SPRING.
- 21.444 OBSERVATION AND PRACTICE TEACHING IN ELEMENTARY SCHOOLS (1-3) Actual observation, preparation of lesson plans, and practice teaching. Grades 1-6 inclusive. Conferences to be arranged with supervisor. Fee, all students, \$10 a credit hour. FALL.
- 21.445 OBSERVATION AND PRACTICE TEACHING IN ELEMENTARY SCHOOLS (1-3) Continuation of 21.444. Fee, all students, \$10 a credit hour. SPRING.
- 21.446 OBSERVATION AND PRACTICE TEACHING IN SECONDARY SCHOOLS (1-3) Actual observation, preparation of lesson plans, and practice teaching. Grades 7-12 inclusive. Conferences to be arranged with supervisor. Fee, all students, \$10 a credit hour. FALL.
- 21.447 OBSERVATION AND PRACTICE TEACHING IN SECONDARY SCHOOLS (1-3) Continuation of 21.446. Fee, all students, \$10 a credit hour. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 21.517 THE SCHOOL AND MODERN SOCIAL PROBLEMS (3) Study and analyses of the social bases of the curriculum. Special reference to pupil needs. Current developments: methods of adapting the school to society. *Prerequisite*, permission of the instructor. 1954 SPRING. 1954 FALL. 1955 SUMMER.
- 21.520 ADVANCED PSYCHOLOGY OF EDUCATION (3) Psychological principles and research methods basic to education. Consideration of motivation, attitudes, mental abilities, psychology of school subjects. Required of students taking graduate degree programs in education. *Prerequisite*, 57.200 *General Psychology* or permission of instructor. FALL. 1955 SUMMER.
- 21.530 LIBRARY PROCEDURES FOR TEACHERS (3) Presentation of what teachers should know about the operation and use of school libraries and public libraries. SPRING.
- 21.542 CURRICULUM CONSTRUCTION IN ELEMENTARY SCHOOLS (3) Methods and procedures used in curriculum construction for modern elementary schools. Study of certain selected curricula in use today. 1954 FALL. 1955 SUMMER.
- 21.555 ADULT EDUCATION (3) Philosophies, methods, techniques, materials, agencies, and facilities for developing and administering programs of adult education. *Prerequisite*, permission of the instructor. 1953 FALL. 1955 SPRING.
- 21.557 (formerly 21.350) TEACHER PROBLEMS IN SPEECH (3) Discussion of speech problems and procedures for the classroom teacher. Elementary speech pathology and speech improvement practices for public school children. SPRING.

- 21.560 ADMINISTRATIVE PROBLEMS OF THE MODERN SCHOOL (3) Practical consideration of internal organization of elementary and high schools. Emphasis on ways good teachers and administrators develop working relationships. Basic course for all teachers. *Prerequisite, permission of the instructor.* SPRING. 1954 SUMMER.
- 21.570 ANATOMY AND PHYSIOLOGY OF THE VOCAL MECHANISM (3) In addition to a study of the anatomy and physiology of the vocal mechanism, this course includes phonetics and the physics of sound. Fee, all students, \$5. 1954 FALL.
- 21.571 SPEECH PATHOLOGY (3) Diagnosis of speech defects. Methods of therapy. Includes consideration of stuttering, delayed speech, defective articulation, speech of those with cerebral palsy, speech of those with defective hearing, speech of those with cleft palate. Clinical demonstrations. Fee, all students, \$5. 1955 SPRING.
- 21.610 PHILOSOPHY OF EDUCATION: ADVANCED (3) Study of doctrines and principles underlying public and private education in America. Special consideration to the purposes, processes, and methods of elementary and secondary education. FALL. 1955 SUMMER.
- 21.615 COMPARATIVE EDUCATION¹: THE WESTERN WORLD (3) Survey and comparison of educational plans and procedures used in various countries. Greatest attention will be directed to education in the United Kingdom, France, Germany, Canada, and the Latin American nations. FALL.
- 21.616 COMPARATIVE EDUCATION²: THE ORIENT (3) Similar to 21.615, with emphasis upon the educational programs of the far east, rather than the western world. SPRING.
- 21.640 CURRICULUM CONSTRUCTION IN SECONDARY SCHOOLS (3) Psychological, cultural, and educational bases of the secondary school curriculum. Practice in construction of curricular materials to meet modern educational problems. 1954 SUMMER. 1955 SPRING.
- 21.642 CURRENT TRENDS AND PRACTICES IN ELEMENTARY EDUCATION (3) A survey of current developments in American elementary schools. 1954 SUMMER. 1955 SPRING.
- 21.650 ESSENTIALS OF SCHOOL LAW (3) A study of the laws governing education in the United States, with special reference to the District of Columbia, Maryland, and Virginia. 1954 FALL.
- 21.652 FINANCIAL AND BUSINESS ADMINISTRATION FOR SCHOOLS (3) School budgets, bonds, and taxes. Selecting, buying, and distributing supplies and equipment. Accounting systems for finances and materiel. Other business aspects of education. 1955 SPRING.
- 21.660 INTERNAL SCHOOL ADMINISTRATION (3) Organization and administration at the local level. Problems of principal in relation to pupil personnel, teacher personnel, finance, public relations, professional problems. *Prerequisite, permission of instructor.* FALL. 1955 SUMMER.
- 21.740 IMPROVEMENT OF INSTRUCTION IN THE SECONDARY SCHOOL (3) Survey of literature on supervision of instruction, improved teaching methods, and use of teaching aids. Special projects for teachers of various high school subjects. *Prerequisite, a course in the secondary school curriculum or permission of instructor.* SPRING. 1954 SUMMER.
- 71.799 THESIS SEMINAR IN EDUCATION (3-6)

ENGLISH

Professors: MERRITT C. BATCHELDER (Chairman); HAZEL H. FEAGANS.

Associate Professors: CHARLES M. CLARK; MARY M. PATTON; RUDOLPH VON ABELE
(on leave of absence 1953-1954).

Assistant Professor: S. W. LIPSMAN.

Instructor: JOHN C. CLENDENIN (on leave of absence 1953-1954).

Lecturers: BERNEICE CHAMBERS; ELLA HARLEE; RICHARD R. HUTCHESON; SAUL
ROSENTHAL.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

UNIVERSITY REQUIREMENTS38-42 hours

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

At least 9 hours must be in courses at the 400 level or
above.

Related courses 12 hours

7.200 and 7.201 Survey of Art¹ and ² (6) and 29.320 and
29.321 History of England¹ and ² (6).

ELECTIVES—

Associate in Arts12-16 hours

Bachelor of Arts48-52 hours

Undergraduate Courses

WRITING

- 23.100 ENGLISH COMPOSITION¹ (3) Study and practice in expository writing. SUMMER.
FALL. SPRING.
- 23.101 ENGLISH COMPOSITION² (3) Expository writing, including a research paper. *Pre-*
requisite, 23.100. SUMMER. FALL. SPRING.
- 23.300 ADVANCED WRITING¹ (3) Training in writing, expository and/or narrative, through
individual projects suited to the students's needs and interests. *Prerequisite*, 23.101 with grade
C or better, or permission of the instructor. FALL.
- 23.301 ADVANCED WRITING² (3) Style and structure in writing prose. Practice in writing
short essays of various types, poetry, and fiction. Readings, discussions, conferences. *Pre-*
requisite, permission of instructor. SPRING.
- 23.306 COPY-EDITING AND ABSTRACTING (3) Study of the mechanical details of preparation
of copy for the printer, with special emphasis on Government Printing Office style in capitali-
zation, abbreviation, and punctuation. 1953 FALL AND ALTERNATE YEARS.
- 23.307 PROOFREADING AND INDEXING (3) Proofreader's responsibilities in correcting galley,
page, and subsequent proofs; proofroom procedure; government printing practices. *Pre-*
requisite, permission departmental chairman. Laboratory fee, parttime students, \$4. 1954
SPRING AND ALTERNATE YEARS.
- 23.400 GOVERNMENT REPORT WRITING (3) Writing reports, memoranda, letters, adminis-
trative orders, and other forms of communication in government administration. Not offered
1953-1955.
- 23.401 CREATIVE WRITING WORKSHOP¹ (3) Principles of short story writing. Analysis of
current stories. Stories written under the supervision of the instructor. *Prerequisite*, per-
mission of instructor. FALL.
- 23.402 CREATIVE WRITING WORKSHOP² (3) The completed story and problems of revision.
Scene and plot construction and characterization with attention to psychological and sociologi-
cal elements. *Prerequisite*, 23.401. SPRING.

- 23.405 (formerly 23.500) WRITING OF SPEECHES (3) Methods of preparing effective speeches for delivery by oneself or by others. Intended primarily for persons considering careers in politics, government, business or professional management, public relations, and radio or television. Not offered 1953-1954.

LITERATURE

- 23.220 HUMAN VALUES IN WORLD LITERATURE (3) Study of the worth of the individual and his place in society as recorded in world literature to 1700. SUMMER. FALL. SPRING.
- 23.221 ISSUES IN MODERN LITERATURE (3) Trends in modern European literature. Readings in poetry, fiction, essay, and drama on social, political, psychological, and economic issues. *Prerequisite*, 23.220. SUMMER. SPRING.
- 23.230 ENGLISH LITERATURE¹ (3) Survey of the prose and poetry from the beginnings to about the middle of the 18th century. *Prerequisite to a major in English and to advanced courses in English*. SUMMER. FALL.
- 23.231 ENGLISH LITERATURE² (3) English poetry and prose from the middle of the 18th century to the 20th century. *Prerequisite*, 23.230. SUMMER. SPRING.
- 23.320 SHORT NARRATIVE¹ (3) Shorter forms of narrative, prose, and verse, in English literature from medieval times to the 18th century. Readings, lectures, discussions, and a term paper. 1954 FALL AND ALTERNATE YEARS.
- 23.321 SHORT NARRATIVE² (3) Survey of the short story in English and American literature from the 18th century to the present. 1954 SPRING AND ALTERNATE YEARS.
- 23.330 ROMANTIC LITERATURE¹ (3) Chief poems and critical essays of Wordsworth and other writers of the period. *Prerequisite*, 23.231. 1954 FALL AND ALTERNATE YEARS.
- 23.331 ROMANTIC LITERATURE² (3) Byron, Shelley, Keats, and the leading essayists of their era. 1955 SPRING AND ALTERNATE YEARS.
- 23.332 VICTORIAN PROSE (3) Study of the significant prose writings of Carlyle, Ruskin, Newman, Arnold, Pater, and others. 1954 FALL AND ALTERNATE YEARS.
- 23.333 VICTORIAN POETRY (3) Study of the significant poems of Tennyson, Browning, Arnold, Rossetti, Swinburne, and others. 1955 SPRING AND ALTERNATE YEARS.
- 23.334 THE ENGLISH NOVEL¹ (3) The English novel in the 18th century. Selected novels by Defoe, Richardson, Fielding, Smollett, Sterne, and Walpole. 1953 FALL AND ALTERNATE YEARS.
- 23.335 THE ENGLISH NOVEL² (3) The English novel during the 19th century. Selected novels by Scott, Austen, Thackeray, Dickens, and others. 1954 SPRING AND ALTERNATE YEARS.
- 23.336 MODERN ENGLISH LITERATURE (3) English literature from 1900 to the present. Emphasis upon writers whose work reflects the main currents of modern thought. 1954 SUMMER.
- 23.360 AMERICAN LITERATURE¹: COLONIAL PERIOD (3) Survey of literature from the colonial period to about the middle of the 19th century. Cultural and artistic significance. Readings, lectures, and a term paper. 1955 SUMMER AND ALTERNATE YEARS.
- 23.361 AMERICAN LITERATURE²: 19th CENTURY (3) American literature from the middle of the 19th to the 20th century. Major writers and principal trends. 1953 FALL AND ALTERNATE YEARS.
- 23.362 AMERICAN LITERATURE³: 20th CENTURY (3) American literature since 1900, with special attention to the period since 1920. 1954 SPRING.
- 23.364 (formerly 23.500) NOVEL IN AMERICA (3) Development of the novel between 1830 and 1930, as exemplified in works chosen for historical or aesthetic importance. *Prerequisite*, a course in American literature. 1955 FALL AND ALTERNATE YEARS.
- 23.365 (formerly 23.501) POETRY IN AMERICA (3) Introduction to major figures in American poetry, with special attention to the period since 1914. *Prerequisite*, a course in American literature. Not offered 1953-1955.
- 23.420 MASTERPIECES OF EUROPEAN LITERATURE (3) Study of outstanding works of literature produced in Europe between 1770-1880. Goethe, Constant, Stendhal, Balzac, Flaubert, Turgenev, Keller, and Dostoevski. *Prerequisite*, 23.221. SUMMER.
- 23.421 MODERN EUROPEAN FICTION¹ (3) Introduction to problems and their solutions in the art of fiction as practiced in our time, by concentration upon the work of its most significant representatives. *Prerequisite*, 23.221. 1954 FALL.
- 23.422 MODERN EUROPEAN FICTION² (3) Emphasis on the work of James Joyce. *Prerequisite*, 23.421. 1955 SPRING.
- 23.430 CHAUCER¹ (3) Introduction to the reading of Chaucer's poetry. Chaucer as man and poet and his 14th century background. Readings in *The Canterbury Tales*. 1953 FALL AND ALTERNATE YEARS.
- 23.431 CHAUCER² (3) Readings in *The Canterbury Tales*, *Troilus and Criseyde*, and some of the minor poems. *Prerequisite*, 23.430. 1954 SPRING AND ALTERNATE YEARS.

- 23.432 SHAKESPEARE¹ (3) Intensive study of *Macbeth*, *Henry IV—Part I*, and *Twelfth Night*. Lectures, discussions, collateral readings, and reports. 1954 FALL AND ALTERNATE YEARS.
- 23.433 SHAKESPEARE² (3) Intensive study of *King Lear*, *Othello*, and *The Winter's Tale*. Lectures, discussions, collateral readings, and reports. 1955 SPRING AND ALTERNATE YEARS.
- 23.434 MILTON (3) Readings in the major and minor poems with special attention to *Paradise Lost*. Some readings in his prose works. 1953 FALL AND ALTERNATE YEARS.
- 23.435 JOHNSON (3) Johnson as a leading man of letters in the 18th century. Readings in *Life of Johnson* and in the work of some of Johnson's contemporaries. 1954 SPRING AND ALTERNATE YEARS.

SPEECH AND THEATER

- 23.170 (formerly 67.103) VOICE AND DICTION (3) Voice production fundamentals. Proper articulation and phonation. Exercises for voice improvement. Treatment of individual student speech problems through recordings and interviews. Fee, parttime students, \$5. FALL. SPRING.
- 23.270 (formerly 67.200) PUBLIC SPEAKING (3) Platform techniques, vocal projection, preparation and organization of material, audience psychology, basic appeals and factors of attention and illustration. *Prerequisite to advanced courses in speech and drama.* FALL. SPRING.
- 23.271 (formerly 67.201) INTERPRETATIVE READING¹ (3) Analysis, interpretation, and practice in expressive reading of literature to develop ability in sharing literature with an audience. *Prerequisite, 23.170 or 23.270.* 1953 FALL.
- 23.272 (formerly 67.201) INTERPRETATIVE READING² (3) Practice in use of techniques of effective oral interpretation. Presentation of selections from classical and modern drama and fiction. Interpretative recital required of each student. 1954 SPRING.
- 23.370 (formerly 67.300) ADVANCED VOICE IMPROVEMENT (3) For persons whose professional success depends upon more than adequate speech. Recordings, individual voice analysis, personalized voice exercises, and diction. *Prerequisite, 23.170 or 23.270, or permission of departmental chairman.* Fee, all students, \$5. FALL.
- 23.371 (formerly 67.301) PUBLIC SPEAKING: ADVANCED (3) Speech organization and delivery. Practice in speech writing, heckling, and impromptu techniques. Speech types are discussed and presented by the students. *Prerequisite, 23.270.* SPRING.
- 23.372 (formerly 67.252) ACTING¹ (3) Techniques of creative acting. Bodywork, motivation, pantomime, characterization, and improvisation. Laboratory stage work. 1954 FALL.
- 23.373 (formerly 67.253) ACTING² (3) Dramatization of scenes from plays with emphasis on analysis of dramatic roles and character delineations. Each student creates at least one major role. 1955 SPRING.
- 23.374 (formerly 67.450) HISTORY OF THEATER AND DRAMA¹ (3) Study of the theater from ancient to modern times. Evolution of physical theater and styles of writing. Reading of plays representing each period. Not offered 1953-1954.
- 23.375 (formerly 67.451) HISTORY OF THEATER AND DRAMA² (3) Survey of the theater with emphasis on drama from Ibsen to the present. Individual research on selected trends. Not offered 1953-1954.
- 23.470 PROBLEMS OF THE PROFESSIONAL SPEAKER (3) Practical course for lawyers, teachers, and ministers designed to obtain the maximum use of the speaking voice in addressing groups. Stress on the communication of ideas, voice production, diction, scripture interpretation. Recordings and individual voice analysis. Fee, all students, \$5. SPRING.
- 23.471 (formerly 67.550) REPERTOIRE THEATER¹ (3) Group study, discussion, selection, and production of three-act plays for the audience. 1953 FALL.
- 23.472 REPERTOIRE THEATER² (3) Continuation of 23.470. Production of three-act plays. 1954 SPRING.

FRENCH

See Languages, page 80.

GEOGRAPHY

Professor: NORMAN CARLS (on leave of absence 1953-1955).

Adjunct Professor: LLOYD D. BLACK.

Lecturers: WILLIS GEHRKE; LEWIS C. POPHAM III; ELVYN A. STONEMAN.

DEGREE PROGRAMS

The University offers no degrees in geography but the courses below may be used to meet requirements for related fields in both the undergraduate and graduate degree programs.

Undergraduate Courses

- 25.101 EARTH RESOURCES (3) Origin and distribution of land forms. Natural vegetation and vegetation regions. Nature and distribution of soils. Economic minerals. Water resources. Conservation. FALL.
- 25.102 INTRODUCTION TO ECONOMIC GEOGRAPHY (3) World survey of production and consumption of major commodities. Economic development and standards of living in major regions. Resources, man-land ratios, and techniques. SPRING.
- 25.480 APPLIED CARTOGRAPHY (3) Fundamentals of military map compiling designed to prepare students for positions in federal service as map compilers. Two hours of lecture and four hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 25.519 TECHNIQUES OF GEOGRAPHIC FIELD RESEARCH (3) Recognition and plotting of natural and man-made features of the landscape. Use of topographic maps and aerial photographs. Compilation of research maps. Field experience. Not offered 1953-1954.
- 25.521 ECONOMIC GEOGRAPHY¹: FOOD AND AGRICULTURE (3) World survey of production, distribution, and consumption of agricultural commodities. Problems and potentials of major nations and world regions. International trade in agricultural products. FALL.
- 25.522 ECONOMIC GEOGRAPHY²: MINERAL RESOURCES AND MANUFACTURING (3) World survey of mineral resources and manufacturing industries. Power resources, raw materials, market areas, transportation, labor, and governmental factors. SPRING.
- 25.523 GEOGRAPHIC FACTORS IN BUSINESS AND INDUSTRY (3) Applications of geographical techniques to problems in agriculture, mining, manufacturing, marketing, transportation, communications, international trade, and regional planning. Not offered 1953-1954.
- 25.525 ECONOMIC AND POLITICAL GEOGRAPHY OF UNDERDEVELOPED AREAS (3) Population, territorial framework, resources, and industries of areas included under Point Four. Plans, policies, and problems projected on geographical setting. FALL.
- 25.530 WORLD POLITICAL GEOGRAPHY (3) Major political problems of the world related to geographic backgrounds. World problem areas, current issues, and relationships of national states. SPRING.
- 25.531 GEOGRAPHY OF AMERICAN REGIONS (3) Resources, population, and industrial, agricultural, and urban development. Historical sequence of settlement and resource use. Major regional problems and current trends. FALL.
- 25.532 GEOGRAPHY OF LATIN AMERICA (3) Man and resources in Latin America studied by individual countries and regions. Population, economic and political life, and natural resource base. Historical sequence of land occupancy. SPRING.
- 25.540 GEOGRAPHY OF WESTERN EUROPE (3) Population, resources, and economic and political life in Western Europe including the British Isles, Scandinavia, Finland, Benelux, France, Germany, Austria, Italy, Greece, Portugal, and Spain. Not offered 1953-1954.
- 25.550 GEOGRAPHY OF THE SOVIET UNION AND EASTERN EUROPE (3) Population, industrial and agricultural production, and the resource base. Use of the land as influenced by politics and technology. Not offered 1953-1954.
- 25.560 GEOGRAPHY OF SOUTHERN AND EASTERN ASIA (3) Population, natural resources, and economic and political life in Japan, Korea, China, India, Pakistan, Burma, Thailand, Indo-China, Indonesia, and the Philippines. SPRING.
- 25.580 USE AND EVALUATION OF MAPS (3) Map reading and interpretation. Physical, distributional, statistical, communications, economic, land-use, and other special-subjects maps. Use of maps in government and business. SPRING.

GEOLOGY

Associate Professor: EDGAR BOWLES.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Students may enroll in a program leading to the degree of Associate in Arts with major in geology. The requirements for this degree include 38-42 hours of University requirements (students are advised to complete 15.110 and 15.111 General Chemistry¹ and ² as a part of this requirement), 12 hours of work in geology, and 12-16 hours of electives. No bachelor's degree in geology is offered but students may combine the study of geology and other sciences in a program leading to the degree of Bachelor of Science with major in distributed sciences, the requirements of which are described on page 56.

Undergraduate Courses

- 27.100 **ASTRONOMY** (*formerly Earth in Space and Time*) (3) Man's place in the universe as defined by astronomical studies. The earth, solar system, stars, stellar and galactic systems. Cosmic processes and cosmic history. Demonstrations, no laboratory. SPRING.
- 27.110 **PHYSICAL GEOLOGY** (4) Materials that constitute the earth and geologic processes that operate upon it. Natural phenomena. Field trips and laboratory assignments. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1953 FALL.
- 27.111 **HISTORICAL GEOLOGY** (4) Earth history and the prehuman past. Physical history and the evolution of animals and plants from their earliest beginnings to their present form. Field trips and laboratory assignments. *Prerequisite*, 27.110. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 SPRING.
- 27.200 **INVERTEBRATE PALEONTOLOGY** (4) Development of the invertebrate phyla as illustrated by fossils. Field trips and laboratory assignments. *Prerequisite*, 27.111. 2 hours of lecture and 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 27.203 **STRATIGRAPHY** (4) Distribution and variation of sedimentary rocks in time and space. Field trips and laboratory assignments. *Prerequisite*, 27.200. 2 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 27.204 **ECONOMIC GEOLOGY**¹ (3) Principles of ore deposition. Review of the chief metallic ore deposits of the world. Lectures supplemented by field trips and observations. *Prerequisite*, 27.111 or permission of instructor. 1953 FALL.
- 27.205 **ECONOMIC GEOLOGY**² (3) Mineral fuels and non-metallic minerals. Review of their geologic and geographic distribution, their origin, and their economic importance. *Prerequisite*, 27.211 or permission of instructor. 1954 SPRING.
- 27.300 **MINERALOGY AND CRYSTALLOGRAPHY**¹ (4) Origin, occurrence, and basic structure of minerals. Consideration of their chemical properties and their crystallographic form and relationships. *Prerequisite*, 15.111 General Chemistry. 2 hours of lecture and 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 27.301 **MINERALOGY AND CRYSTALLOGRAPHY**² (4) Systematic identification of mineral species and practice in the identification of unknown minerals. *Prerequisite*, 27.300. 2 hours of lecture and 4 hours of laboratory. Laboratory fee, parttime students, \$5. Not offered 1953-1954.
- 27.302 **GEOMORPHOLOGY** (3) Genesis, morphology, and classification of land forms. *Prerequisite*, 27.111. 1953 FALL.
- 27.400 **STRUCTURAL GEOLOGY** (3) Mechanics of rock deformation. Origin and development of some of the earth structures. *Prerequisite*, permission of the instructor. 1954 SPRING.
- 27.410 **FIELD GEOLOGY**¹ (4) Field problems in geology and the mechanics of field mapping. *Prerequisite*, at least 8 hours of geology or permission of the instructor. 1 hour of lecture and 6 hours of field work. FALL.
- 37.411 **FIELD GEOLOGY**² (4) Detailed topographic and geologic mapping of a specific area. Complete geologic report on the area assigned is required of each student. *Prerequisite*, Field Geology 27.411. 1 hour of lecture and 6 hours of field work. SPRING.

GERMAN

See Languages, page 80.

HISTORY

Professors: ERNST CORRELL; HAROLD E. DAVIS; DONALD DERBY; ARTHUR A. EKIRCH (on leave of absence 1953-1954); ERNST POSNER (Chairman).

Adjunct Professors: SOLON J. BUCK; LOUIS C. HUNTER.

Associate Professor: DOROTHY D. GONDOS.

Assistant Professor: DAVID J. BRANDENBURG.

Professorial Lecturer: KERIM K. KEY.

Lecturers: MEREDITH B. COLKET, JR.; LESTER E. EDMOND; FRITZ T. EPSTEIN; GRACE E. FOX; STANLEY NEHMER; FRANCIS C. PRESCOTT; WAYNE D. RASMUSSEN; JOHN B. STABLER.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science in Social Science, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

ASSOCIATE IN ARTS

Major courses 18 hours

3 hours selected from the following: 29.500 Historical Research: Materials and Methods, 29.501 History of Historical Writing, 29.503 Historical Writing in the U. S., or 29.504 Philosophy of History; and 15 additional hours including at least 9 hours in one of the following fields: U. S. history, European history, Latin American history, economic history, and history of government.

BACHELOR OF SCIENCE IN SOCIAL SCIENCE

Major courses 24 hours

6 hours of survey courses in American or European history; 3 hours selected from the following courses: 29.500 Historical Research: Materials and Methods, 29.501 History of Historical Writing, 29.503 Historical Writing in the U.S., or 29.504 Philosophy of History; and 15 additional hours including at least 9 hours in one of the following fields: U.S. history, Latin American history, European history, economic history, and history of government.

Related courses 27-33 hours

6 hours in humanities (for which foreign language may be substituted), 9 hours of basic social sciences, and 18 hours of advanced social sciences including at least 3 hours in each of the following fields: anthropology, economics, geography, international relations, political science, and sociology.

Tool courses 0-6 hours

6 hours in a foreign language may be substituted for the 6 hours in the humanities listed under related courses.

BACHELOR OF ARTS

Major courses 30 hours

Same as for the major for the degree of Bachelor of Science in Social Science, except that 29.492 Senior Undergraduate Seminar (3) and 3 additional hours in one of the areas of history must be completed.

Related courses 18-24 hours

6 hours in the humanities (for which foreign language may be substituted) and 18 hours in advanced humanities or the social sciences.

Tool courses	0-6 hours
6 hours in a foreign language may be substituted for 6 hours of work in related courses.	

ELECTIVES—

Associate in Arts	6-10 hours
Bachelor of Science in Social Science	27-31 hours
Bachelor of Arts	30-34 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in history. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

BASIC COURSES

- 29.100 **BACKGROUNDS OF AMERICAN DEMOCRACY¹** (3) Introduction to historical studies. The U. S. as a phase of western civilization. Expansion of Europe; economic and social background; man and the state. SUMMER. FALL. SPRING.
- 29.101 **BACKGROUNDS OF AMERICAN DEMOCRACY²** (3) The U. S. studied with reference to religious history, the growth and implications of modern thought, science and technology, and the quest for world order. *Prerequisite*, 29.100. SUMMER. FALL. SPRING.
- 29.200 **CIVILIZATION IN THE AMERICAS¹: NATIONAL ORIGINS** (3) Origin and development of the U. S., Canada, and the nations of Latin America to 1825. Western hemisphere considered as a unit with common historical background. 1953 FALL AND ALTERNATE YEARS.
- 29.201 **CIVILIZATION IN THE AMERICAS²: NATIONAL DEVELOPMENT** (3) Growth and development of the American nations since 1825. Inter-American relations and the Pan American movement. The Americas in recent world affairs. 1954 SPRING AND ALTERNATE YEARS.
- 29.203 **HISTORY OF AMERICAN BUSINESS LEADERSHIP¹** (3) American business enterprise and leadership viewed within framework of economic history from colonial period through Civil War. Emphasis on individual leadership through selected case histories. SUMMER. FALL.
- 29.204 **HISTORY OF AMERICAN BUSINESS LEADERSHIP²** (3) Emergence of industrial America, large scale business organization. Adaptation of business to problems of territorial expansion, technological change, mass production, expanded government, war, international leadership. SUMMER. SPRING.

EUROPE

- 29.310 **THE ANCIENT WORLD** (3) Origin and nature of early near-eastern and Greek cultures. Economic, social, political, military, and administrative history of the Roman world. 1954 FALL.
- 29.311 **MEDIEVAL EUROPE** (3) Formative period of European civilization. Transition of social life and political institutions from the Roman Empire to the age of European discovery and exploration. 1955 SPRING.
- 29.312 **HISTORY OF EUROPE¹** (3) Nature, causes, and social consequences of the Reformation. The Catholic Counter-Reformation. Evolution of political ideologies and institutions. Expansion of commerce and the growth of empires. French Revolution. 1953 FALL AND ALTERNATE YEARS.
- 29.313 **HISTORY OF EUROPE²** (3) Development of European nationalities from 1815 to 1914. Metternich reaction, rise of liberalism, industrial revolution, and social, cultural, and economic bases of nationalism and imperialism. 1954 SPRING AND ALTERNATE YEARS.
- 29.320 **HISTORY OF ENGLAND¹** (3) Political, economic, social, and cultural life in England to 1689. Origins and development of constitutional government. Beginnings of empire. Correlation with pre-law studies and English literature. 1953 FALL AND ALTERNATE YEARS.
- 29.321 **HISTORY OF ENGLAND²** (3) England and the British Empire since 1689. Evolution of constitutional government, expansion of empire, the empire system since World War II. Correlation with pre-law studies and English literature. 1954 SPRING AND ALTERNATE YEARS.
- 29.420 **ENGLISH CONSTITUTIONAL HISTORY** (3) Development of English political institutions, practices, and ideas. Emphasis on the evolution of representative traditions rather than on political narrative. 1955 SPRING.

UNITED STATES

- 29.440 **HISTORY OF THE U. S.¹** (3) Survey course for undergraduates, giving a comprehensive history of our country from colonial times to the Civil War. FALL.

- 29.441 HISTORY OF THE U. S.² (3) Survey course for undergraduates, covering the period from the Civil War to the present. SPRING.
- 29.442 AMERICAN BIOGRAPHIES (3) Lives of personalities representative of the periods and problems of American history. Discussions and lectures on backgrounds of issues symbolized by individuals studied. Not offered 1953-1955.
- 29.443 SOCIAL HISTORY OF THE U.S.¹ (3) Social factors in U. S. history from colonial times to the Civil War. Emphasis upon the family, labor, immigration, slavery, religion, the westward movement. 1954 FALL AND ALTERNATE YEARS.
- 29.444 SOCIAL HISTORY OF THE U. S.² (3) Analysis of American society since the Civil War with special attention to social classes and ethnic groups, urbanization, industrialism, technology, the social gospel, popular recreation. 1955 SPRING AND ALTERNATE YEARS.

SEMINAR

- 29.492 SENIOR UNDERGRADUATE SEMINAR (3) FALL.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

HISTORIOGRAPHY AND METHODS OF RESEARCH

- 29.500 HISTORICAL RESEARCH: MATERIALS AND METHODS (3) Critical use of materials available for research in modern history. Techniques, methods of inquiry, evaluation of materials, and types and styles of historical writing. 1954 FALL. 1955 SPRING.
- 29.501 HISTORY OF HISTORICAL WRITING (3) Development of historiography from the period of the Renaissance. Trends in historical thinking, research, and writing. Discussion of representative historical works. 1953 FALL AND ALTERNATE YEARS.
- 29.503 HISTORICAL WRITING IN THE U. S. (3) Analysis of historical writing in the U. S. from colonial times. Attention to prominent historians and trends in historical thinking and interpretation. 1954 SPRING AND ALTERNATE YEARS.
- 29.504 PHILOSOPHY OF HISTORY (3) Contemporary issues in the philosophy of history with special attention to problems of meaning and structure in the historical process, considered in the light of their historical roots. 1954 FALL.
- 31.530 INSTITUTE OF GENEALOGICAL RESEARCH (3) See page 75.

EUROPE, ASIA, AND AFRICA

- 29.510 RENAISSANCE AND REFORMATION (3) Political and social history of Europe from the 15th century to 1648. Transition of Europe from medieval to modern times; impact of explorations and the Reformation. Rise of capitalism. 1955 FALL.
- 29.511 FRENCH REVOLUTION AND NAPOLEON (3) European history from 1789 to 1815. Significant aspects of the French Revolution, the Napoleonic Empire, and the Congress of Vienna. 1954 SPRING.
- 29.512 HISTORY OF EUROPE: 1870 TO 1914 (3) Political, economic, and cultural effects of nationalism, imperialism, and industrialization in Europe. National developments and international alliances. Background of World War I. 1954 FALL.
- 29.513 EUROPE SINCE 1914 (3) Political, social, and economic developments in Europe from the beginning of World War I through World War II. 1953 FALL. 1955 SPRING.
- 29.514 MODERN REVOLUTIONS (3) Theory of revolutionary movements and the form and structure of revolution as exemplified in the Puritan, American, French, and Russian revolutions. 1954 SUMMER.
- 29.515 EXPANSION OF EUROPE (3) Oversea expansion of European countries from the 15th through the 19th centuries. Influence of colonial and imperialistic expansion in shaping recent history. 1955 SUMMER.
- 29.516 ECONOMIC HISTORY OF MODERN EUROPE¹ (3) European economy from medieval times through the 18th century. Origins and growth of capitalism. Industrialism, colonialism; public credit and private finance; formation of national economies. FALL.
- 29.517 ECONOMIC HISTORY OF MODERN EUROPE² (3) Economic aspects of European industrial, national, and colonial development since the 18th century. SPRING.
- 29.525 FRANCE: EMPIRE TO FOURTH REPUBLIC (3) Collapse of Second Empire. Formation of the Third Republic and its course to 1940. Vichy interlude and Fourth Republic. Reading knowledge of French desirable. 1955 SUMMER.
- 29.528 GERMANY SINCE 1870 (3) German History from the Bismarck era to the downfall of the Nazi regime. 1955 SPRING.
- 29.530 HISTORY OF CZARIST RUSSIA (3) Expansion of Russia from the Muscovite principality to the empire of the 20th century. Development of institutions and culture. 1953 FALL AND ALTERNATE YEARS.

- 29.531 RUSSIA SINCE 1917 (3) Soviet Union from the October revolution to the death of Stalin. Emphasis on internal political, socio-economic, and cultural developments. 1954 FALL.
- 29.535 HISTORY OF THE FAR EAST (3) Historical backgrounds; invasion of western influence; conflict of national interests; economic and cultural systems; Asiatic consciousness and world organization. FALL. SPRING.
- 29.536 HISTORY OF AFRICA (3) History of the African continent during the modern period. European colonization and competition; internal economic, social, and political developments; emerging African nationalism. Not offered 1953-1954.
- 29.610 INTELLECTUAL HISTORY OF EUROPE THROUGH THE ENLIGHTENMENT (3) Ideas and outlooks that have influenced the development of western history from the 13th century to the eve of the French Revolution. Not offered 1953-1955.
- 29.611 INTELLECTUAL HISTORY OF EUROPE FROM THE FRENCH REVOLUTION (3) Cultural and intellectual currents from the end of the 18th century. Rise of the romantic movement; impact of revolutionary ideas, science, and industrial technology. Not offered 1953-1955.

UNITED STATES

- 29.540 COLONIAL ORIGINS OF THE U. S. (3) European backgrounds. Conflict of rival colonial systems. Political, economic, and social developments within the colonies. Causes and development of revolt. 1955 SUMMER.
- 29.541 ERA OF THE AMERICAN REVOLUTION (3) Survey of colonial backgrounds. Origins and development of the American Revolution. Drafting and establishment of the Constitution of the U. S. FALL.
- 29.542 DEVELOPMENT AND DISRUPTION OF THE FEDERAL UNION (3) The U. S. from 1789 to 1861. Social and political implications of the Jeffersonian and Jacksonian reform movements of the period. Growth of sectionalism. SPRING.
- 29.543 CIVIL WAR AND RECONSTRUCTION (3) Causes and course of the war; its impact on national life. Problems and effects of reconstruction. Industrialization and urbanization. Social and economic forces. 1955 SPRING.
- 29.544 THE U. S. IN THE 20th CENTURY (3) Era of Theodore Roosevelt. Emergence of the U. S. as a world power. The New Deal. The U. S. in two world wars. 1954 SPRING.
- 29.545 THE SOUTH IN U. S. HISTORY (3) Colonial times to the present. Factors making the south a distinctive part of the American nation. Not offered 1953-1955.
- 29.546 THE FRONTIER IN U. S. HISTORY (3) Westward expansion from colonial times to the close of the 19th century. Analysis of Turner's frontier hypothesis in the light of recent critical literature. 1954 SUMMER.
- 29.547 HISTORY OF U. S. FOREIGN POLICY (3) Historical treatment and critical examination of the role of the U. S. in world affairs. SPRING.
- 29.548 AMERICAN ECONOMIC HISTORY¹ (3) Review of American economic development from the colonial beginnings to the mid-19th century. FALL.
- 29.549 AMERICAN ECONOMIC HISTORY² (3) Review of American economic development during the past one hundred years. SPRING.
- 29.550 HISTORY OF INDUSTRY IN THE U. S. (3) American industrial development from the end of the 18th century to the present. Structural and organizational aspects, location trends, technology, and distribution. 1954 SUMMER AND ALTERNATE YEARS.
- 29.551 HISTORY OF AGRICULTURE IN THE U. S. (3) Agrarian settlement and land policies, history and significance of farm implements and machinery; agricultural development by regions and commodities. 1955 SUMMER AND ALTERNATE YEARS.
- 29.640 INTELLECTUAL HISTORY OF THE U. S.¹ (3) Ideas and attitudes of the American people and their leaders from colonial times to the Civil War. Puritanism, the enlightenment, transcendentalism, democracy, and nationalism. 1954 FALL.
- 29.641 INTELLECTUAL HISTORY OF THE U. S.² (3) Dominant patterns of American thought from the Civil War to the present. Impact of Darwinian evolution, industrialism, the vanishing frontier, progressive democracy, imperialism, and war. 1955 SPRING.
- 29.642 CONCEPT OF AMERICAN NATIONALISM (3) Origin and development of nationalism with attention to manifest destiny, cultural nationalism, patriotism, and world-mindedness. 1955 SUMMER AND ALTERNATE YEARS.
- 29.643 U. S. EXPANSION ABROAD (3) Political and economic expansion of the U. S. in key areas such as Latin America and the Pacific. Ideological impact of American civilization in all parts of the world. 1954 SUMMER AND ALTERNATE YEARS.

THE OTHER AMERICAS

- 29.570 COLONIAL ORIGINS OF LATIN AMERICAN NATIONS (3) Colonization by Spain, Portugal, and France. Causes and developments of independence movements. Not offered 1953-1955.

History

- 29.571 GROWTH OF LATIN AMERICAN NATIONALISM (3) History of Latin America from independence to the end of the 19th century. Constitutional, sociological, economic, and ideological aspects of national development. 1954 SPRING AND ALTERNATE YEARS.
- 29.572 LATIN AMERICA IN THE 20th CENTURY (3) Movements of economic nationalism. Agrarian, electoral, and educational reform. Militarism: cultural, ideological, and religious developments. 1953 FALL. 1955 SPRING.
- 29.573 LATIN AMERICAN SOCIAL AND POLITICAL THOUGHT (3) Spanish and Portuguese backgrounds. Ideas of the independence leaders. Mid-century liberalism and romanticism. Positivist thought. Contemporary trends. 1954 FALL AND ALTERNATE YEARS.
- 29.574 HISTORY OF CANADA (3) National development from colonial origins to the achievement of dominion status. Westward expansion. Relations with the U. S., the Commonwealth of Nations, and the United Nations. Not offered 1953-1955.

SEMINARS

- 29.710 RESEARCH SEMINAR IN EUROPEAN HISTORY (3)
- 29.740 RESEARCH SEMINAR IN THE HISTORY OF THE U. S. (3)
- 29.799 THESIS SEMINAR IN HISTORY (3-6)

INSTITUTES

The University offers short, intensive institutes to meet the needs of students already established in their professions who desire to increase their knowledge of the theories and techniques of their specialties. Institute programs are developed with the advice of specialists in business organizations, government agencies, and national associations located in Washington and consist of formal lectures and seminar discussions, field and laboratory work, reading assignments, and research projects. Institutes are offered as credit and non-credit courses. A limited amount of credit earned by the completion of some institutes may be used to meet the requirements for undergraduate and graduate degrees. For information concerning individual institutes apply to L. M. Homberger, Director of the Division of Institutes, 1901 F Street, N.W.

BUSINESS ADMINISTRATION

- 31.001 INSTITUTE ON EMPLOYEE COMMUNICATION (No credit) Theory, practice of employee-management communication. Principles, media, group relations, employees' opinion surveys. "How to do it" lectures by experts. Group discussions. Institute meets 9 days (54 hours). Tuition, \$85. SPRING.
- 31.002 INSTITUTE ON MATERIALS HANDLING (No credit) Materials handling and packaging: principles, fields of activity, operating problems, space utilization, determining handling costs and efficiency. Organizational aspects. Institute meets 2 days (20 hours). Tuition, \$35. SPRING.
- 31.504 INSTITUTE ON REAL ESTATE APPRAISAL² (3) *Official advanced demonstration case-study course of American Institute of Real Estate Appraisers.* Students appraise two properties, prepare written reports. Satisfactory grade is accepted by the Institute of Real Estate Appraisers in lieu of required examination No. 2. *Prerequisite, 11.589 Real Estate Appraisal¹, five years of real estate experience, or satisfactory completion of special Institute of Real Estate Appraisers examination.* Institute meets 11 days (80 hours). Tuition, \$85 (including fee of American Institute of Real Estate Appraisers). SUMMER.

ECONOMICS

- 31.020 INSTITUTE OF INDUSTRIAL TRANSPORTATION AND TRAFFIC MANAGEMENT (No credit) Courses and field trips designed for present and future junior executives in traffic management. Institute meets 14 days (88 hours). Tuition, \$100. FALL.
- 31.021 AIR TRANSPORTATION INSTITUTE (No credit) Program of courses and field trips designed for present and future junior executives in air transportation. Institute meets 14 days (88 hours). Tuition, \$100. FALL.
- 31.022 RAIL TRANSPORTATION INSTITUTE (No credit) Program of courses and field trips designed for present and prospective junior executives in rail transportation agencies. Institute meets 14 days (88 hours). Tuition, \$135. SPRING.
- 31.023 INSTITUTE ON FEDERAL TAXES (No credit) Lectures and panel discussions for advanced tax lawyers and tax accountants. Institute meets 3 days (22 hours). Tuition, \$25. FALL.
- 31.025 FOREIGN TRANSPORTATION INSTITUTE (No credit) Program of courses and field trips designed for present and prospective junior executives in inland transportation agencies engaged in foreign transportation. Institute meets 14 days (88 hours). Tuition, \$100. SPRING.

HISTORY

- 31.530 INSTITUTE OF GENEALOGICAL RESEARCH (3) Principles and methods of genealogical research and the practical use of genealogical materials in the National Archives and other depositories in or near Washington. Institute meets 15 days (75 hours). Tuition, \$50. SUMMER.

INTERNATIONAL RELATIONS AND ORGANIZATION

- 31.540 INSTITUTE ON THE POSITION OF THE UNITED STATES IN WORLD AFFAIRS (4-6)
Institute for teachers and other students designed to show the formation and implementation of current U. S. foreign policy. Seminars and meetings with government and diplomatic officials. Institute meets five weeks in Washington, the last week at the headquarters of the United Nations. Tuition, \$60 (4 credits) or \$90 (6 credits). SUMMER.

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

- 31.050 INSTITUTE FOR TEACHERS OF GOVERNMENT AND ADMINISTRATION (No credit)
Offered with the cooperation of the American Political Science Association. Conferences with national leaders about current topics. Exploration of resources for enrichment of teaching. Institute meets 10 days (60 hours). Tuition, \$45. SUMMER.
- 31.051 INSTITUTE ON ADMINISTRATION OF SCIENTIFIC RESEARCH AND DEVELOPMENT (No credit).
For persons engaged in administration of scientific research and development. Exploration on problems; methods of solution. Invited experts hold sessions in addition to University faculty.
- 31.052 INSTITUTE ON ATTITUDE SURVEYS AND THE FEDERAL AGENCIES (No credit)
Intensive program to explore current experience and thinking in the use of opinion and attitude research by government agencies. Institute meets 3 days (20 hours). Tuition, \$25. FALL.
- 31.550 INSTITUTE IN THE PRESERVATION AND ADMINISTRATION OF ARCHIVES (3)
Lectures on phases of archives administration and laboratory experience in the National Archives, the Library of Congress, and the Maryland Hall of Records. Institute meets 20 days (105 hours). Tuition, \$60. SUMMER.

PSYCHOLOGY

- 31.561 INSTITUTE OF HUMAN RELATIONS AND INTERGROUP UNDERSTANDING (3)
Seminar meetings dealing with the psychological and social problems of discrimination, prejudice, and race antagonisms on both the local and world levels. Nationally recognized consultants discuss methods of improving race relations. Institute meets 15 days (67 hours). Tuition, \$45. SUMMER.

INTERNATIONAL RELATIONS AND ORGANIZATION

Professor: PITMAN B. POTTER (Chairman).

Adjunct Professor: BENJAMIN BOCK.

Associate Professors: MARY E. BRADSHAW; SAMUEL L. SHARP.

Professorial Lecturer: ELI E. NOBLEMAN.

Lecturers: HANS AUFRICHT; ROBERT D. BAUM; DONALD M. DOZER; LAWRENCE D. EGBERT; N. G. D. JOARDER; KERIM K. KEY; E. TAYLOR PARKS; LAWRENCE WADSWORTH, JR.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science in Social Science, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in international relations and organization are advised to complete 19.201 Structure of the American Economy (3), 33.200 Introduction to World Politics (3), and 53.200 American Government: National (3), as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF SCIENCE IN SOCIAL SCIENCE

Major courses 24 hours

Including 9 hours from one of the following fields and at least 3 hours each in 3 of the others: international organization and administration, international law and legislation, international political relations (including area studies), American diplomacy, and the United Nations.

Related courses 15-21 hours

3 hours each in economics, geography, history, political science, and psychology and an additional 6 hours in psychology or modern languages.

Tool courses 3-9 hours

Modern languages.

BACHELOR OF ARTS

Major courses 24 hours

Same as for the degree of Bachelor of Science in Social Science.

Related courses 12-18 hours

Including at least 6 hours in political theory, 6 additional hours in economics, geography, or history, and 6 hours in psychology or modern languages.

Tool courses 6-12 hours

Modern languages.

ELECTIVES—

Associate in Arts 12-16 hours

Bachelor of Science in Social Science 30-46 hours

Bachelor of Arts 30-46 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in international relations. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

- 33.200 INTRODUCTION TO WORLD POLITICS (3) Survey treating bases and modalities of relations among national states. Geographic, political, economic, and social factors. Techniques and responsibilities of the great powers for maintaining peace. SUMMER. FALL. SPRING.
- 33.300 PROBLEMS IN WORLD POLITICS (3) Selected problems in contemporary world politics; case studies of geopolitical, economic, and population factors shaping international relations. Role of ideology in foreign policy. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 33.510 AMERICAN DIPLOMACY (3) Department of State; Foreign Service; principles of constitutional law and practices governing the President, the Department, Congress, etc. Principles of American foreign policy and recent developments. FALL.
- 33.512 PROBLEMS IN AMERICAN DIPLOMACY (3) Post-war difficulties and problems involved in such issues as the Truman Doctrine, possible peace settlements in Germany and Austria, European economic recovery, international control of atomic energy, the North Atlantic Pact, and the Military Assistance Program. *Prerequisite, a course in American diplomacy or international politics.* SPRING.
- 33.515 FOREIGN POLICIES OF THE GREAT POWERS (3) Great power politics since World War I. Attention to issues such as security, imperialism, international cooperation, and international organization. Not offered 1953-1954.
- 33.516 INTERNATIONAL RELATIONS BETWEEN WARS (3) Diplomacy of 1919-1939 with particular reference to Europe. Development and breakdown of the French system; collective security, Facism and Nazism, the Soviet Union, the role of the U. S. in European affairs. FALL.
- 33.517 DIPLOMACY OF WORLD WAR II (3) A reading course. Principle diplomatic activities of the states chiefly concerned in the outbreak, conduct, and conclusion of World War II. SUMMER.
- 33.520 CENTRAL AND WESTERN EUROPE INTERNATIONAL RELATIONS (3) Principal problems in the foreign relations of the nations of Central and Western Europe, including Great Britain but excluding the Scandinavian countries. Basic geographical, economic, and social factors. SPRING.
- 33.521 RUSSIAN EXPANSION: CZARIST AND SOVIET (3) Main trends of Russian territorial and political expansion in Europe and Asia since the 17th century. Ideological tools of expansion, including Orthodoxy, Catholicism, Pan-Slavism, and International Communism. Not offered 1953-1954.
- 33.522 SOVIET RUSSIA IN WORLD AFFAIRS (3) Development of Russia's international position under the Soviet system; analysis of the aims and methods of Soviet diplomacy with particular emphasis on the record since the end of World War II. Not offered 1953-1954.
- 33.523 PROBLEMS OF THE MIDDLE ZONE: FINLAND TO GREECE (3) Internal and external problems lying between Germany and Russia in their historical and contemporary setting. Past and current plans for federal union in this area. SPRING.
- 33.524 CONTEMPORARY AFRICAN PROBLEMS (3) Independent nations in Africa and their international relations. Dependent territories and their relations to metropolitan countries and the United Nations. Future place of Africa in world politics. FALL.
- 33.525 MIDDLE EAST INTERNATIONAL RELATIONS (3) Political, economic, and social backgrounds and foreign relations of the countries of the middle east, with special emphasis on constitutional, economic, and cultural developments of Afghanistan, Iran, the Arab states, Israel, and Turkey. SUMMER.
- 33.526 INDIA IN WORLD POLITICS (3) Indian national independence movement: Gandhian non-violence. Dominion status and its consequences; republican constitution; political parties. Indian foreign policy; relations with other countries and the United Nations. FALL.
- 33.527 SOUTHEAST ASIA INTERNATIONAL RELATIONS (3) Geopolitical position of southeast Asia; social and economic forces, natural resources, economic demography, agricultural and industrial planning, trade relations. Political forces: colonialism, nationalism, communism; trends in foreign relations and foreign policy; U. S. policy toward southeast Asia. SPRING.
- 33.528 FAR EAST INTERNATIONAL RELATIONS (3) Geographic setting; penetration by western powers; colonialism and imperialism; interests and policies of the great powers; rise of nationalism; effect of two world wars; influence of the League of Nations and the United Nations; regionalism in the orient. SPRING.
- 33.529 INTERAMERICAN INTERNATIONAL RELATIONS (3) A survey of the historical background and recent development of U. S. relations with Latin America and of diplomatic relations among the Latin American states. 1955 FALL AND ALTERNATE YEARS.
- 33.530 INTERNATIONAL ASSISTANCE PROGRAMS FOR BACKWARD AREAS (3) Objectives and organizational and operational techniques; bilateral and multilateral United Nations and U. S. assistance programs. Reconstruction, financial aid, technical assistance, and social welfare. Specific operations in foreign areas. *Prerequisite, introductory courses in international organization and economics.* FALL.

- 31.540 INSTITUTE ON THE POSITION OF THE U. S. IN WORLD AFFAIRS (4-6) See page 76.
- 33.550 INTERNATIONAL ORGANIZATION AND ADMINISTRATION (3) Nature, bases, and functions of international organization. Diplomacy, treaties, international conferences and legislation, international administration and adjudication; international federation; world government. League of Nations and United Nations. FALL. SPRING.
- 33.551 UNITED NATIONS ORGANIZATION AND FUNCTIONS (3) Background of charter, origins, functions of principal organs. Sovereign equality of members. Obligations of members. Political, social, cultural, humanitarian issues. Relationship to specialized agencies. FALL.
- 33.552 UNITED NATIONS RECENT PROBLEMS (3) Major political issues before the General Assembly and Security Council; work of various agencies in Indonesia, Korea, and India (Kashmir). Regional security developments; relationship of North Atlantic Treaty Organization and the Mutual Security Program to UN activities. Developments in human rights and trusteeships. SPRING.
- 33.554 THE INTERAMERICAN SYSTEM (3) Organization and operation of the Organization of American States and affiliated organizations. The Interamerican peace and security system. Relationship of the system to the United Nations. 1954 FALL AND ALTERNATE YEARS.
- 33.555 THE U. S. AND INTERNATIONAL ORGANIZATION (3) U. S. participation in international organizations; relation to foreign policy. Administrative and fiscal aspects; benefits derived; government organization to meet responsibilities; role of Congress, State Department, other agencies. FALL. SPRING.
- 33.556 INTERNATIONAL ADMINISTRATION (3) Nature of international administration. Historical development. Membership and organization of international administrative unions. Functions, procedures, finances, personnel, seat, and plant. Relations of agencies with member governments, non-member states and organizations, and the public. SUMMER.
- 33.560 INTERNATIONAL LAW AND LEGISLATION¹ (3) Nature, origins, and history of international law. Forms and formation of the law (parties of international law; sovereignty and jurisdiction; international intercourse). FALL.
- 33.561 INTERNATIONAL LAW AND LEGISLATION² (3) Force short of war. War and its commencement. Combatants and non-combatants. Permitted and prohibited methods. Occupation of enemy territory. Enemy aliens. Enemy property. Termination of war. Prisoners of war. War crimes. Neutral rights and duties. Prize law. SPRING.
- 33.562 LAW OF INTERNATIONAL FINANCE (3) Major principles of international law related to international trade and finance. Impact of recent legal concepts on traditional thought and practice. Bipartite and multipartite agreements; statutes; cases. Organizational developments including IMF, IBRD, and others. *Prerequisite*, 33.550 or its equivalent. Not offered 1953-1954.
- 33.563 INTERNATIONAL LAW THEORY AND HISTORY (3) A reading course. Nature and function of international law; defects and needs of revision; relation to international organization; future. SUMMER.
- 33.564 INTERNATIONAL REGULATION OF AVIATION (3) Historical evolution of aviation. Analysis of regulatory problems. International integration of regulation. Present statutes. Prospects for more effective consolidation. Not offered 1953-1954.
- 33.556 LAW AND PRACTICE OF FOREIGN OCCUPATION (3) Nature and bases of military occupation. Powers of occupant and rights and obligations of inhabitants. Relations with local government. Evolution and liquidation. SPRING.
- 33.568 INTERNATIONAL MARITIME LAW (3) Origins and development of maritime law. Jurisdiction over parts of the sea. Regulation of navigation, shipping, and admiralty and maritime jurisdiction. Principles of the law applicable to the construction, ownership, operation, documentation, and liability of ships. Not offered 1953-1954.
- 33.700 SEMINAR IN CONTEMPORARY INTERNATIONAL RELATIONS (3) Individual projects, group discussion of special problems; emphasis on impact of the polarization of power on traditional ideas and techniques in foreign policy. FALL. SPRING.
- 33.720 LATIN AMERICAN AREA SEMINAR (3) General studies and directed research on the peoples, institutions, economic problems, and historical backgrounds of the various areas and countries of Latin America. SPRING.
- 33.721 SEMINAR IN SOVIET FOREIGN POLICY (3) For advanced graduate students interested in research projects in the field of Soviet foreign policy. SUMMER.
- 33.750 SEMINAR IN INTERNATIONAL RELATIONS AND ORGANIZATION (3) Selected problems in international political relations and international organization exclusive of law and administration. SPRING.
- 33.770 SEMINAR IN INTERNATIONAL LAW AND ADMINISTRATION (3) Selected problems in international law including international, constitutional, administrative, and criminal law and international legislation. Problems in international administration. FALL.
- 33.799 THESIS SEMINAR IN INTERNATIONAL RELATIONS AND ORGANIZATION (3-6)

JOURNALISM

See Communication, page 53.

LANGUAGES

Professor: JOHN G. FRANK.

Associate Professors: ALVA L. DAVIS; RUBERTA M. OLDS (Chairman).

Assistant Professor: KATHRYN D. WYATT.

DEGREE PROGRAMS

UNDERGRADUATE DEGREE—Bachelor of Arts (with major in French, German, or Spanish).

UNIVERSITY REQUIREMENTS38-42 hours

DEPARTMENTAL REQUIREMENTS—

BACHELOR OF ARTS

Major courses24-36 hours

12 hours of elementary and intermediate courses (toward which credits earned in secondary schools may be applied) and 24 hours of advanced courses in the language selected as a major. Specific course requirements are as follows.

FRENCH

37.322 and 37.323 Survey of French Literature¹ and ² (6), 37.427 and 37.428 Advanced French Grammar, Composition, and Conversation¹ and ² (6), and 12 hours in advanced literature courses.

GERMAN

37.332 and 37.333 Survey of German Literature¹ and ² (6), 37.437 Advanced German Grammar, Composition, and Conversation¹ (3), and 15 hours in advanced literature courses.

SPANISH

37.352 and 37.353 Survey of Spanish Literature¹ and ² (6), 37.457 and 37.458 Advanced Spanish Grammar, Composition, and Conversation¹ and ².

Related courses 12 hours

Art history, English literature, history, and music appreciation are recommended.

ELECTIVES36-52 hours

Undergraduate Courses

37.010 LANGUAGE CONFERENCES (No credit) Tutorial conferences to serve candidates for higher degrees preparing for tool examinations in modern languages. Offered to meet the needs of individual students.

37.110 ENGLISH FOR FOREIGN STUDENTS¹ (3) English taught as a foreign language. Instructional method identical with introductory modern foreign language courses. SUMMER. FALL.

37.111 ENGLISH FOR FOREIGN STUDENTS² (3) Courses preparing student studying English as a foreign language to enter first year basal English courses. *Prerequisite*, 37.110 or permission of the instructor. SPRING. SUMMER.

FRENCH

37.120 ELEMENTARY FRENCH¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic French. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.

37.121 ELEMENTARY FRENCH² (3) Continuation of 37.120. SUMMER. SPRING.

37.220 INTERMEDIATE FRENCH¹ (3) Hearing, understanding, and speaking idiomatic French with stress on reading. Dictation. Readings in 19th and 20th century French literature. *Prerequisite*, one year college French, two years secondary school French, or qualifying examination. FALL.

37.221 INTERMEDIATE FRENCH² (3) Continuation of 37.220. SPRING.

37.322 FRENCH LITERATURE¹ (3) French literature from its beginnings to the romantic period. Reading of texts from *La Chanson de Roland* to Voltaire and Rousseau. *Prerequisite*, 37.221. FALL.

- 37.323 FRENCH LITERATURE² (3) French literature from romanticism to contemporary period. Readings from Chateaubriand to André Gide. Emphasis on spiritual and intellectual heritage of each succeeding literary generation. *Prerequisite*, 37.322. SPRING.
- 37.324 CLASSICAL FRENCH LITERATURE (3) The classical ideal during the reign of Louis XIV. Study centered on 17th century writers other than dramatists: Descartes, Pascal, Boileau, Bossuet, La Fontaine, La Rochefoucauld, and Fenelon. *Prerequisite*, 37.323. 1953 FALL AND ALTERNATE YEARS.
- 37.325 CLASSICAL FRENCH DRAMA (3) Three great 17th century French dramatists: Corneille, Racine, and Moliere. Study of humanistic values expressed in their masterpieces. *Prerequisite*, 37.324. 1954 SPRING AND ALTERNATE YEARS.
- 37.420 THE FRENCH RENAISSANCE (3) Renaissance and humanistic movement in France in the 16th century. Rabelais, the *Pleiade*, Ronsard, and Montaigne. *Prerequisite*, permission of the instructor. 1954 FALL AND ALTERNATE YEARS.
- 37.421 18th CENTURY FRANCE: MEN AND IDEAS (3) Attitudes and ideas of age of enlightenment as reflected in Montesquieu, Diderot, the Encyclopedists, Voltaire, and Rousseau. *Prerequisite*, permission of the instructor. 1955 SPRING AND ALTERNATE YEARS.
- 37.422 FRENCH ROMANTICISM (3) Development of romantic movement in early 19th century French literature. Analysis of sentiments of romanticists. *Prerequisite*, permission of the instructor. Not offered 1953-1954.
- 37.423 FRENCH REALISM (3) 19th century French literature from decline of romanticism to turn of century. Attention to periods of expression known as realism, naturalism, and symbolism. *Prerequisite*, permission of the instructor. Not offered 1953-1954.
- 37.424 (formerly 37.520) CONTEMPORARY FRENCH THEATER (3) Representative plays of Paul Claudel, Jules Romains, Jean Jacques Bernard, Jean Giraudoux, Henri de Montherlant, and Jean Paul Sartre. *Prerequisite*, permission of instructor. 1954 SUMMER.
- 37.425 (formerly 37.521) CONTEMPORARY FRENCH NOVELS (3) Major trends in French novel since 1919. J. Romains, Mauriac, Duhamel, Gide, Malraux, Giraudoux, du Gard, Fournier, and Proust. *Prerequisite*, permission of instructor. 1954 SUMMER.
- 37.427 (formerly 37.522) ADVANCED FRENCH GRAMMAR, COMPOSITION, AND CONVERSATION¹ (3) Emphasis on oral fluency and written accuracy of idiomatic French. Extensive readings and discussion. Required course for students majoring in French. *Prerequisite*, permission of the instructor. 1955 SUMMER.
- 37.428 (formerly 37.523) ADVANCED FRENCH GRAMMAR COMPOSITION AND CONVERSATION² (3) Continuation of 37.522. *Prerequisite*, permission of the instructor. 1955 SUMMER.

GERMAN

- 37.130 ELEMENTARY GERMAN¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic German. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.
- 37.131 ELEMENTARY GERMAN² (3) Continuation of 37.130. SUMMER. SPRING.
- 37.230 INTERMEDIATE GERMAN¹ (3) Hearing, understanding, and speaking idiomatic German with stress on reading. Dictation. Readings in German literature. *Prerequisite*, one year college German, two years secondary school German, or qualifying examination. FALL.
- 37.231 INTERMEDIATE GERMAN² (3) Continuation of 37.230. SPRING.
- 37.332 GERMAN LITERATURE¹: 8th TO 19th CENTURY (3) German literature from old high German period through the classical period to 19th century romanticism. *Prerequisite*, 37.231. FALL.
- 37.333 GERMAN LITERATURE²: 1795-1910 (3) Movements in German thought in 19th century. Selected writings. *Prerequisite*, 37.332 or qualifying examination. SPRING.
- 37.341 SCIENTIFIC GERMAN¹ (3) Reading of selected scientific German texts. *Prerequisite*, permission of instructor. SUMMER.
- 37.342 SCIENTIFIC GERMAN² (3) Continuation of 37.341. SUMMER.
- 37.430 GERMAN CLASSICAL PERIOD (3) German literature from rationalism and the English influence to transition from classicism to romanticism. Lessing, Herder, Goethe, Schiller, Kant, and Fichte. *Prerequisite*, permission of the instructor. 1953 FALL AND ALTERNATE YEARS.
- 37.431 LESSING (3) Lessing as symbol of 18th century movements in German thought. Foundations of modern German drama. Preparation for work of Kant, nature of "Aufklärung," humanistic ideals. 1954 SPRING AND ALTERNATE YEARS.
- 37.432 (formerly 37.530) GOETHE (3) Life, times, and representative works of Goethe. Reading of *Faust*. *Prerequisite*, permission of instructor. 1954 FALL AND ALTERNATE YEARS.
- 37.433 (formerly 37.531) SCHILLER (3) Life, times, and representative works of Schiller. His ideas, psychology as expressed in drama, and moral and artistic standards. *Prerequisite*, permission of instructor. 1955 SPRING AND ALTERNATE YEARS.

- 37.437 (formerly 37.532) ADVANCED GERMAN GRAMMAR, COMPOSITION, AND CONVERSATION¹ (3) Emphasis on oral fluency and written accuracy of idiomatic German. Extensive readings and discussion. Required course for students majoring in German. *Prerequisite, permission of instructor.* Not offered 1953-1954.
- 37.438 (formerly 37.533) ADVANCED GERMAN GRAMMAR, COMPOSITION, AND CONVERSATION² (3) Continuation of 37.437. *Prerequisite, permission of instructor.* Not offered 1953-1954.

SPANISH

- 37.150 ELEMENTARY SPANISH¹ (3) Oral-aural approach. Practice in hearing, understanding, and speaking idiomatic Spanish. Inductive presentation of grammar and syntax. Dictation. SUMMER. FALL.
- 37.151 ELEMENTARY SPANISH² (3) Continuation of 37.150. SUMMER. SPRING.
- 37.250 INTERMEDIATE SPANISH¹ (3) Hearing, understanding, and speaking idiomatic Spanish with stress on reading. Dictation. Readings in 19th and 20th century Spanish literature. *Prerequisite, one year college Spanish, two years secondary school Spanish, or qualifying examination.* FALL.
- 37.251 INTERMEDIATE SPANISH² (3) Continuation of Spanish 37.250. SPRING.
- 37.350 READING IN SPANISH¹ (3) Syntactical, grammatical, and vocabulary emphasis based on proficiency acquired in basal courses. Discussion, dictation. Conversation based on readings of modern Spanish prose. *Prerequisite, 37.251.* FALL.
- 37.351 READING IN SPANISH² (3) Continuation of 37.350. SPRING.
- 37.352 SPANISH LITERATURE¹ (3) Spanish literature from epic to romantic period. Readings from *Poema del Cid* through *Seglo de Oro*. *Prerequisite, 37.250.* 1954 FALL AND ALTERNATE YEARS.
- 37.353 SPANISH LITERATURE² (3) Spanish literature from romanticism to contemporary period. Reading of texts from *El Duque de Rivas* and *Espronceda* to *Jimnez*. Emphasis on artistic and cultural standards of each period. *Prerequisite, 37.352.* 1955 SPRING AND ALTERNATE YEARS.
- 37.354 NOVEL OF THE GOLDEN AGE (3) Cervantes and his works with emphasis on *Don Quixote*. *Prerequisite, permission of instructor.* 1954 FALL AND ALTERNATE YEARS.
- 37.355 DRAMA OF THE GOLDEN AGE (3) Lope de Vega, Tirso de Molina, Ruiz de Alarcon, and Calderon de la Barca. 1955 SPRING AND ALTERNATE YEARS.
- 37.450 MODERN SPANISH DRAMA (3) Representative plays by Echegaray, Benavente, Quintero Brothers, Marquina, Martinez Sierra, and Garcia Lorca. *Prerequisite, permission of instructor.* 1954 FALL AND ALTERNATE YEARS.
- 37.451 19th CENTURY REGIONAL NOVEL (3) Attitudes and ideas of regional novelists. Valera, Alaron, Pereda, Galdos, Valdes, and Ibanez. *Prerequisite, permission of instructor.* 1955 SPRING AND ALTERNATE YEARS.
- 37.452 (formerly 37.550) SPANISH-AMERICAN LITERATURE¹: 1519-1888 (3) Spanish American literature from chronicles to period of modernism. Historical and social factors. *Epic of Araucana* to Mitre. *Prerequisite, permission of the instructor.* 1953 FALL AND ALTERNATE YEARS.
- 37.453 (formerly 37.551) SPANISH-AMERICAN LITERATURE²: MODERN PERIOD (3) Modernism to contemporary period. Najera through Mistral. *Prerequisite, permission of the instructor.* 1954 SPRING AND ALTERNATE YEARS.
- 37.457 (formerly 37.552) ADVANCED SPANISH GRAMMAR, COMPOSITION, AND CONVERSATION¹ (3) Emphasis on oral fluency and written accuracy of idiomatic Spanish. Extensive readings and discussion. Required course for students majoring in Spanish. *Prerequisite, permission of instructor.* FALL.
- 37.458 (formerly 37.553) ADVANCED SPANISH GRAMMAR, COMPOSITION, AND CONVERSATION² (3) Continuation of 37.552. *Prerequisite, permission of the instructor.* SPRING.
- 37.459 (formerly 37.555) CONTEMPORARY SPANISH LITERATURE (3) Generation of 1898 and contemporary poets, novelists, dramatists, and critics. *Prerequisite, permission of instructor.* Not offered 1953-1954.

LAW

Professors: DAVID R. BOOKSTAYER (Dean of the Washington College of Law); HERBERT FUCHS; EDWIN A. MOOERS; JOHN SHERMAN MYERS.

Assistant Professor: ROY P. FRANCHINO.

Professorial Lecturers: HARRY J. BREITHAUP; DAVID G. BRESS; LAWRENCE S. LESSER; PHILIP LEVY; REBECCA LOVE NOTZ; MONROE OPPENHEIMER; KARL STECHER; BARNARD T. WELSH.

Lecturers: RICHARD D. DRAIN; WILLIAM L. GRIFFIN; JULIA B. HOPKINS; LEON LIPSON; BESSIE MARGOLIN; ROSS D. NETHERTON; GERALD D. O'BRIEN; BRYCE REA, JR.; CARRINGTON SHIELDS; ADAM YARMOLINSKY.

DEGREE PROGRAMS

The Washington College of Law of The American University offers programs leading to the degree of Bachelor of Laws. Candidates for the degree must complete 80 hours of law courses (the last 20 hours in this University), maintain a cumulative average of 1.0, and complete their law studies within a period of not less than 2 nor more than 6 calendar years of study. Undergraduate students of The American University may enroll in a combined degree program that enables them to complete requirements for the Bachelor of Science or Bachelor of Arts and Bachelor of Laws degree after six years of fulltime study or the equivalent in parttime study. A student in the combined degree program may enter the Washington College of Law after completing 96 hours of the requirements for an undergraduate degree. He receives the Bachelor of Science or Bachelor of Arts degree upon satisfactory completion of the first year of fulltime law study or the equivalent, the law courses being accepted as a part of the major or elective courses required for the degree. He receives the Bachelor of Laws degree upon satisfactory completion of two additional years of fulltime law study or the equivalent. For information concerning law programs apply to the Dean of the Washington College of Law.

First Year Courses

- 39.500 AGENCY (2) Distinction between agent, servant, and independent contractor; creation, incidents, and termination of the agency relation; apparent authority, ratification, undisclosed principal, irrevocable agencies. FALL.
- 39.501 CONSTITUTIONAL LAW (4) Judicial interpretation and enforcement of constitutions; judicial review; separation of powers; the Federal system; the powers of the national government, particularly to regulate interstate and foreign commerce; the Bill of Rights; the 14th Amendment; due process, equal protection and privileges and immunities of citizens of the U. S.; the power of eminent domain; retroactive and ex post facto laws; the contract clause; constitution revision and amendment. SPRING.
- 39.502 CONTRACTS (6) Formation of simple contracts; sealed contracts; offer and acceptance; misrepresentation and mistake; considerations; third-party beneficiaries; the Statute of Frauds; assignment; joint and point and several contracts; performance and breach; compromise agreements and discharge; illegality. FALL.
- 39.503 CRIMINAL LAW (3) Criminal law in general; the mental element; capacity to commit crimes; the nature of selected common law and statutory felonies and misdemeanors; selected problems in criminal procedure. SPRING.
- 39.504 LEGAL BIBLIOGRAPHY (1) Analysis and use of legal codes, digests, encyclopedias, citators, and search tools through assignment of individual problems involving research in the more important sets of books. FALL.
- 39.505 PROCEDURE (4) Forms of action, joinder of parties and causes, demurrers and motions, dilatory pleadings, pleas, replication; setoff and counterclaim; extraordinary legal remedies; declaratory judgments; equity pleadings; the Code ideals in pleading and procedure; jurisdiction and venue; proceedings after verdict. SPRING.
- 39.506 PROPERTY I (3) Problems in possession, bailments, liens, pledges, gifts, accession and confusion, bona fide purchaser. Estates in land. Landlord and tenant. SPRING.
- 39.507 TORTS (4) Important civil wrongs not arising out of contract; intentional and negligent injuries to persons, to real and personal property, and to intangibles. FALL.

Law
Advanced Courses

- 39.600 ADMINISTRATIVE LAW (3) Constitutional background for administrative agencies. Statutes and administrative agencies. Statutes and administration, procedures, hearings, decisions, rule-making, adjudication. Judicial control of agency action. Federal Administrative Procedure Act. FALL.
- 39.601 BUSINESS ASSOCIATIONS (4) Brief consideration of the law of partnerships. The nature, powers, and obligations of private corporations, including the effect of ultra vires acts, together with a consideration of the rights and duties of promoters, officers, directors, and stockholders, and of the rights of creditors and others against the corporation. FALL.
- 39.602 CONFLICT OF LAWS (3) Impact on doctrines of conflict of laws of: domicile, jurisdiction of courts, foreign judgments, torts, contracts, the internal law of the forum, property, family law, administration of estate, corporations. SPRING.
- 39.603 CREDITORS' RIGHTS (2) Fraudulent conveyances, enforcement of judgments, assignments for the benefit of creditors, creditors' agreements, receiverships, corporate reorganization, and bankruptcy. FALL.
- 39.604 DAMAGES (2) Nominal and exemplary damages; compensatory damages; direct and consequential damages in tort and contract cases; aggravation and mitigation of damages; liquidated damages; value; interest; counsel fees and other expenses of litigation; non-pecuniary losses; entirety of recovery; damages in specifications. Not offered 1953-1954.
- 39.605 DOMESTIC RELATIONS (2) Legal consequences of marital contracts. Grounds for dissolution of marriage. Annulment, divorce and separation, alimony, antenuptial debts and contracts. Wife's earnings. Rights and obligations of parent and child. Contracts and torts of infants. SUMMER.
- 39.606 EQUITY (4) General nature of equitable jurisdiction. The in personam concept. Specific performance of contracts, principle relief against torts. General and particular equitable remedies. FALL.
- 39.607 EVIDENCE (4) Proof of facts in issue. Purpose and necessity of exclusionary rules; the hearsay rule. Examination, competency, and privilege of witnesses. Parole evidence rule. Judicial notice. FALL.
- 39.608 FEDERAL JURISDICTION AND PROCEDURE (3) Jurisdiction of the federal courts. Removal of causes, venue. Historical background of federal rules of civil procedure, discussion of federal rules, recent amendments, application and interpretation of the rules. Comparison of federal rules with state code. FALL.
- 39.609 INSURANCE (2) Life, accident, and property insurance. The insurance contract. Insurable interest, rights of beneficiary, insured assignee, creditors, tax aspects, methods of settlement, rights and powers of insurer. SPRING.
- 39.610 LABOR LAW (2) Common Law and statutory bases for regulation of labor relations. Strikes, boycotts, and other means of self-help. Collective bargaining, rights and obligations of employers and labor organizations under the Labor Management Relations Act, Norris-LaGuardia Act. Legal status and responsibilities of unions. Offered alternate years. Not offered 1953-1954.
- 39.611 LEGAL ACCOUNTING (2) Introduction to accounting techniques and to interpretation of financial statements. Emphasis on problems found in practice of the law. FALL.
- 39.612 LEGAL WRITING (Credit arranged) Analysis of legal problems. Collection of material and authorities. Mechanics of legal writing. Preparation of opinions and articles. Admission requires approval of Dean. FALL. SPRING.
- 39.613 LEGISLATION (2) Historical evolution of the legislative process, its present nature and extent. Supplementary rules and regulations. Technique of bill drafting. Principles of statutory construction. SPRING.
- 39.614 MILITARY LAW (2) Principles of military justice, including study of courts martial, military commissions, and courts of inquiry; principles of martial law and the law of war; source, nature of, and limitations on military authority. Not offered 1953-1954.
- 39.615 MOOT COURT (2) Practice court conducted on pattern of district court of the U. S. Preliminary investigation of facts, preparation of case for trial, trial briefs, consideration of trial tactics. Conduct of civil actions to final judgment including preparation of complaint, responsive pleadings and motions, impaneling jury, examination and cross-examination of witnesses, prayers, argument to court and jury, procedure on appeal. SPRING.
- 39.616 MUNICIPAL CORPORATIONS (3) The place of local government units in the governmental structure; legal aspects of personnel, finance, community planning, debt adjustment and regulation of business; local government responsibility in tort and contract. Offered alternate years. Not offered 1953-1954.
- 39.617 NEGOTIABLE INSTRUMENTS (3) Origin of negotiable instruments. Negotiability, transfer and negotiation, bank collection problems. Holders in due course. Equities and defenses. Liability of parties. Discharge of instrument, of parties. SPRING.
- 39.618 PATENTS¹ (2) History, theory, and philosophy of patent system. Practice and procedure in preparation and prosecution of patent applications including interferences, appeals, and patent conveyancing. FALL.

- 39.619 PATENTS² (2) Substantive law of patents. Enforcement of patents. Patent litigation in all branches including patent fraud, patent and anti-patent trust problems, license litigation, and suits by or against the sovereign. SPRING.
- 39.620 PROPERTY² (3) Statute of uses. Modern land transactions, title, conveyancing, title examination, registration, and insurance, covenants and servitudes. Easements, licenses and profits. Lateral and subjacent support. Water rights. Air rights. SPRING.
- 39.621 PROPERTY³ (3) Future interests: remainders, revisions, possibilities of reverter, conditions, executory limitations. Powers of appointment. Problems in construction. Restraints on creation of future interests. Rule against perpetuities and accumulations. FALL.
- 39.622 RESEARCH SEMINAR (2) A research and writing seminar in investigating a contemporary legal problem. Individual research by seminar members, results of which are incorporated into symposium. Admission only with approval of dean and instructor. SPRING.
- 39.623 RESTITUTION (2) Quasi-contractual obligations compared with the contract and tort obligations. Unjust enrichment. Mistakes of law and fact. Rescission and reformation. FALL.
- 39.624 SALES (2) Transfer of property interest in goods. Divided property interests. Documents evidencing property interests. Conditional, approval, return and bulk sales. Warranties. Payment, inspection and acceptance. Remedies. Not offered 1953-1954.
- 39.625 SECURITY TRANSACTIONS (3) Real and personal security. Legal mortgages. Security holder's choice of remedies. Not offered 1953-1954.
- 39.626 TAXATION (3) Jurisdiction to tax and other constitutional limitation. Legal problems presented by the tax system, with particular attention to Federal income tax. SPRING.
- 39.627 TRADE REGULATION (2) Unfair trade practices, combinations in restraint of trade monopoly. False and misleading advertising. Misappropriation of business ideas and assets. Disparagement of competitors. Federal trade commission act, fair trade laws, Robinson-Patman act, unfair sales act, federal food, drug and cosmetic act, Clayton act. Adulteration and misbranding, exclusive arrangements and tie-in regulations. Not offered 1953-1954.
- 39.628 TRUSTS (3) Trust relation and its development. Necessary elements and manner of creation. Powers, duties, rights, and liabilities of trustees and cestui que trusts. Resulting and constructive trusts. SPRING.
- 39.629 WILLS (2) Descent and distribution. Property rights of surviving spouse. Making and executing of wills. Testamentary capacity, character and intent. Integration, revocation, ademption, abatement, and lapse. Probate and administration. FALL.
- 39.630 LEGAL HISTORY (3) Nature, origin and development of law; origin and development of Anglo-American law; modern English and American law; legal administration. SUMMER.

MATHEMATICS

Professors: FRITZ OBERHETTINGER; WALTER F. SHENTON (Chairman) .

Adjunct Professor: ERNEST E. BLANCHE.

Assistant Professor: HENRY ANTOSIEWICZ.

Instructor: PETER HENRICI.

Professorial Lecturers: FRANZ ALT; EUGENE LUKACS; SIMON NAIDEL; OLGA TAUSKY-TODD; JOHN TODD.

Lecturers: DAVID BLACKWELL; PHILIP DAVIS; BURTON V. DEAN; KY FAN; ALAN J. HOFFMAN; JOSEPH F. MCCLOSKEY; MICHAEL MONTALBANO; MORRIS NEWMAN; CHESTER PAGE; RUSSELL V. PERSON; PHILIP RABINOWITZ; WILLIAM SAUNDERS; EMIL SCHELL; RALPH SLUTZ; W. GORDON WELCHMAN; JANET L. WILE.

DEGREE PROGRAM

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science, Bachelor of Arts. See page 56 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in mathematics are advised to select 15.110 and 15.111 General Chemistry¹ and ² (8) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3) and 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6).

BACHELOR OF SCIENCE

Major courses 36-37 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6), 41.310 Linear Algebra (3), 41.311 Theory of Equations (3), 41.320 Advanced Topics in the Calculus (3), 41.321 Differential Equations (3), 41.440 Solid Analytic Geometry; 41.520 and 41.521 Introduction to Analysis¹ and ² (6), and 3-4 hours from other departmental offerings at the 500 level.

Related courses 16-20 hours

51.200 and 51.201 General Physics ¹ and ² (8), 4-8 hours of advanced work in physics, and 4 additional hours of advanced work in either chemistry or physics.

Tool courses 12 hours

French or German.

BACHELOR OF ARTS

Major courses 24 hours

Related courses 12 hours

51.200 and 51.201 General Chemistry¹ and ² (8) and 4 hours of advanced work in either chemistry or physics.

ELECTIVES—

Associate in Arts 12-16 hours

Bachelor of Science 15-24 hours

Bachelor of Arts 48-52 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in Mathematics. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

- 41.100 MATHEMATICS IN HUMAN AFFAIRS¹: BASIC OPERATIONS (3) Basic arithmetic, geometry, and algebra. Logarithms and the slide rule. For students not planning to major in mathematics or the physical sciences. FALL.
- 41.101 MATHEMATICS IN HUMAN AFFAIRS²: ADVANCED OPERATIONS (3) Fundamentals of trigonometry. Logarithms applied to trigonometry. Chains of related numbers. Simple problems in business and statistics. Related rates—the basis of calculus. *Prerequisite*, 41.100. SPRING.
- 41.110 COLLEGE ALGEBRA (3) Exponents and logarithms. Mathematical induction and the binomial theorem. Progressions. Permutations and combinations. Mathematical probability. Systems of linear equations. Determinants. SUMMER. FALL. SPRING.
- 41.140 PLANE ANALYTIC GEOMETRY (3) Coordinate schemes. Fundamentals of trigonometry. Equations and their loci. Translation and rotation of axes. Lines, circles, parabolas, ellipses, and hyperbolas. General second degree loci. *Prerequisite*, 41.110. SUMMER. SPRING.
- 41.160 FUNDAMENTALS OF BUSINESS MATHEMATICS (3) Basic mathematics for accounting, statistics, finance, etc. Percentages and ratios, logarithms, linear equations, interest and discount, investment accumulation, annuities, amortization, capitalization, and sinking funds. Secondary school algebra desirable background. FALL. SPRING.
- 41.220 DIFFERENTIAL AND INTEGRAL CALCULUS¹ (3) Differentiation and integration of polynomial functions. Applications. Differentiation of transcendental functions. Maxima and minima; related rates; velocity and acceleration; Newton's method for approximating roots. *Prerequisite*, 41.140. SUMMER. FALL.
- 41.221 DIFFERENTIAL AND INTEGRAL CALCULUS² (3) Tracing plane curves. Integration by various substitutions and by parts. Definite integrals, applications. Approximate integration, indeterminate forms. SUMMER. SPRING.
- 41.310 LINEAR ALGEBRA (3) Determinants, minors, and cofactors; systems of linear equations; linear transformations with related operations of matrix algebra; linear, bi-linear, and quadratic forms. *Prerequisite*, a course in the calculus. FALL.
- 41.311 THEORY OF EQUATIONS (3) Complex numbers, real and complex roots of polynomials, solutions of cubic and quartic equations, approximation of incommensurable roots by Newton's and Horner's methods, Symmetric functions. *Prerequisite*, 41.310. 1955 SPRING AND ALTERNATE YEARS.
- 41.320 ADVANCED TOPICS IN THE CALCULUS (3) Convergent and divergent series. Expansions by Taylor's and MacLaurin's theorems. Hyperbolic functions, partial differentiation, multiple integrals. Use of a table of integrals. *Prerequisite*, 41.221. FALL.
- 41.321 DIFFERENTIAL EQUATIONS (3) Elementary differential equations, particular solutions and simple applications. Equations of first order, simultaneous equations, linear equations with constant coefficients, special equations of higher order. *Prerequisite*, 41.320. SPRING.
- 41.440 SOLID ANALYTIC GEOMETRY (3) Coordinate geometry of curves and surfaces in three-dimensional space with emphasis on straight lines, planes, and quadric surfaces. *Prerequisite*, 41.310. 1954 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 41.510 MATRIX THEORY (2) Fundamental concepts and their vector space interpretations. Rank, equivalence, inverse matrices, and determinants. Hermitian matrices, matrices with polynomial elements, similarity transformations, and characteristic roots. *Prerequisite*, 41.310. 1953 FALL.
- 41.511 MODERN ALGEBRA (2) Semigroups and groups; invariant subgroups; factor groups; homomorphisms; rings; integral domains, fields; polynomial rings; principal ideal domains; groups with operators; modulus, ideals; lattices; Boolean algebra. *Prerequisite*, 41.310. 1954 FALL. 1955 SPRING.
- 41.515 NUMBER THEORY (2) Divisibility, prime numbers, number-theoretic functions, residue classes and congruence of numbers, quadratic residues, diophantine equations, the theory of quadratic forms, etc. 1954 SPRING.
- 41.520 INTRODUCTION TO ANALYSIS¹ (3) Differential calculus: the real numbers, limits, functions, continuity, differentials, differentiation, mean value theorem, higher order derivatives. Taylor's theorem, infinite series, uniform convergence, partial derivatives, and implicit functions. *Prerequisite*, 41.320. FALL.
- 41.521 INTRODUCTION TO ANALYSIS² (3) Integral calculus: Stieltjes and Riemann integrals; iterated and multiple integrals; line, surface, and space integrals; improper integrals. *Prerequisite*, 41.520. SPRING.
- 41.528 VECTOR ANALYSIS (2) The algebra and calculus of vectors. Theorems of Green, Gauss, Stokes. Applications to space and differential geometry, geometric optics, gravitational potential, mechanics, hydrodynamics, elasticity, electromagnetism. *Prerequisite*, 41.221. 1953 FALL.
- 41.540 PROJECTIVE GEOMETRY (2) Projective geometry and its relation to the foundations of Euclidean and non-Euclidean geometry. *Prerequisite*, 41.140. 1955 SPRING.

- 41.542 ALGEBRAIC GEOMETRY (2) Properties of algebraic correspondences will be used to develop the projective theory of conics, cubic curves, quadric surfaces, and associated loci. *Prerequisite, consent of the instructor.* 1954 SPRING.
- 41.560 NUMERICAL ANALYSIS¹: BASIC PROBLEMS (2) Interpolation; finite differences; numerical differentiation, integration and approximations by orthogonal functions; least squares; asymptotic representations; difference equations; continued fractions; planning and use of tables; optimum interval tables; differencing. *Prerequisite, 41.320.* FALL.
- 41.561 NUMERICAL ANALYSIS²: MATRICES (2) Calculation of inverses of matrices by various methods; iterative processes for solving systems of simultaneous linear equations, and determination of eigenvalues and eigenvectors of a matrix. *Prerequisite, 41.510.* 1954 SPRING.
- 41.565 CALCULUS OF FINITE DIFFERENCES (2) Differences, interpolation, expansion of functions, especially in factorial form. Summation, generating functions, and difference equations. Numerical integration, graduation, and other approximations. *Prerequisite, 41.221.* 1953 FALL.
- 41.566 ADVANCED DESIGN AND USE OF MODERN COMPUTING MACHINERY¹ (2) Electronic computer systems and components: arithmetic unit, internal memory, control, input-output devices. Electronic design of storage and gating units. Number representations and number codes. Boolean algebra and computer systems design. *Prerequisite, bachelor's degree with major in electrical engineering, mathematics, physics or equivalent.* 1954 FALL.
- 41.567 ADVANCED DESIGN AND USE OF MODERN COMPUTING MACHINERY² (2) Continuation of 41.566, which is prerequisite to this course. 1955 SPRING.
- 41.568 NUMERICAL ANALYSIS³: ORDINARY DIFFERENTIAL EQUATIONS (2) Numerical solution of ordinary differential equations of initial value and boundary value types. Introduction to numerical solution of partial differential equations. *Prerequisite, permission of instructor.* 1954 FALL.
- 41.569 NUMERICAL ANALYSIS⁴: PARTIAL DIFFERENTIAL EQUATIONS (2) Sturm-Liouville problems; expansion theorem, maximum-minimum properties, including theorems, asymptotic behavior. Numerical methods: iteration methods, Rayleigh-Ritz method, remarks on difference methods. *Prerequisite, 41.568.* 1955 SPRING.
- 41.577 INFORMATION THEORY (2) Quantitative discussion of the amount of information in a message, and the rate at which information is communicated. Practical results for communication in the presence of noise. 1953 FALL.
- 41.582 THEORY OF GAMES¹ (2) Zero-sum two-person games in matrix form; existence, nature of good strategies, computation of solutions; linear programming; games in extensive form; games with infinite number of pure strategies; introduction to n-person games. *Prerequisite, 41.510.* 1954 FALL.
- 41.583 THEORY OF GAMES² (2) Continuation of 41.582, which is prerequisite to this course. 1955 SPRING.
- 41.613 GALOIS THEORY (2) Fundamental theorem of Galois theory, application of group theory to problems in theory of algebraic equations, especially solvability by radicals and ruler and compass constructions. *Prerequisite, some knowledge of group theory.* 1953 FALL.
- 41.620 COMPLEX VARIABLES¹ (3) Basic definition, necessary topological concepts, differentiation and integration of functions of a complex variable. Cauchy's theorem, Taylor and Laurent series, the elementary functions. *Prerequisite, 41.521.* 1953 FALL.
- 41.621 COMPLEX VARIABLES² (3) Calculus of residues, singularities, analytic continuation. Entire functions, conformal mapping, various special functions, periodic functions, multiple valued functions, Riemann surfaces. *Prerequisite, 41.620.* 1954 SPRING.
- 41.622 REAL FUNCTIONS¹: THEORY OF POINT SETS (2) Introduction to the theory of classes and point sets, including such topics as the general theory of sets and transfinite numbers; set functions; Euclidean, metric, and general topological spaces. *Prerequisite, 41.521.* 1954 FALL.
- 41.623 REAL FUNCTIONS²: THEORY OF MEASURE (2) Additive functions of a set. Outer measure. Measure. Inner measure. Transformations leaving measure invariant. Covering theorems. Non-measurable functions. Fundamental properties of Lebesgue integrals. Applications. *Prerequisite, 41.622.* 1955 SPRING.
- 41.624 METHODS OF OPERATIONS RESEARCH (2) The decision-making process; theories of decision; information theory; search theory; queuing theory. Applications of these theories and of other methods of mathematics to the physical and social sciences. *Prerequisite, permission of the instructor.* 1953 FALL.
- 41.626 MODERN THEORY OF ORDINARY DIFFERENTIAL EQUATIONS (2) Introduction to the qualitative theory of differential equations; stability criteria, existence of forced periodic solutions, perturbation methods. *Prerequisite, 41.521.* FALL.
- 41.638 THEORY AND APPLICATION OF INTEGRAL TRANSFORMS¹ (2) Laplace-Fourier-Hankel-Mellin and other transforms; boundary value problems. *Prerequisite, 41.621.* FALL. SPRING.

- 41.631 THEORY AND APPLICATIONS OF INTEGRAL TRANSFORMS² (2) Continuation of 41.630, which is prerequisite to this course. SPRING.
- 41.640 CONVEX BODIES (2) Support planes, polar bodies, approximation of convex surfaces by polyhedra and analytic surfaces, volumes and mixed volumes, applications to problems in analysis. 1954 SPRING.
- 41.671 APPLICATIONS OF MEASURE THEORY TO PROBABILITY AND STATISTICS (2) Essential part of measure theory required for its application to probability and statistics. Kolmogoroff representation theorem, conditional expectation, sufficient statistics, martingales, Bayes solutions of decision problems. *Prerequisite*, 41.521 or work in advanced calculus. 1953 FALL.
- 41.710 SEMINAR: ALGEBRA (2) Research in algebra with special reference to work leading to numerical problems, particular attention being paid to the interests of students. *Prerequisite*, permission of the instructor. FALL.
- 41.720 SEMINAR: ANALYSIS (2) Recent research work in analysis, especially numerical analysis, particular attention being paid to the interests of students. *Prerequisite*, permission of the instructor. SPRING.
- 41.799 THESIS SEMINAR IN MATHEMATICS (3-6)

MUSIC

Professor: JAMES L. McLAIN (Chairman).

Assistant Professors: GORDON SMITH; GEORGE STEINER; EVELYN SWARTHOUT.

Lecturers: RONALD ARNATT; GLENN D. GUNN.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Bachelor of Arts (major in applied music, music history and literature, public school music, or music theory).

UNIVERSITY REQUIREMENTS38-42 hours

DEPARTMENTAL REQUIREMENTS—

APPLIED MUSIC

(Orchestral instruments, piano and organ, or voice)

Major courses	40-47 hours
16 hours in music theory, 6 hours of music history, 3 hours in music form and analysis (for students specializing in orchestral instruments or piano or organ), 18 hours in the instrument of specialization or voice, up to 4 hours in piano (as required) except for students of piano and organ.	
Related courses	12 hours
Tool courses	6-12 hours
6 hours of foreign language for those specializing in orchestral instruments or piano and organ, 12 hours of foreign language (French and German) for those specializing in voice.	

MUSIC HISTORY AND LITERATURE

Major courses	40 hours
16 hours in music theory, 15 hours in music history and literature, 6 hours in applied music, 3 hours in music form and analysis.	
Related courses	12 hours
Tool courses	12 hours
6 hours of French and German.	

MUSIC THEORY

Major courses	40-44 hours
16 hours in music theory, 15 hours in advanced theoretical subjects, 6 hours in music history, 3 hours in music literature, up to 4 hours in piano (as required).	
Related courses	12 hours
Tool courses	6 hours
Foreign language.	

PUBLIC SCHOOL MUSIC

Major courses	30 hours
Including 16 hours in music theory, 6 hours in music history.	

Related courses	36 hours
Including 24 hours in courses in education.	
Tool courses	6 hours
Foreign language.	

ELECTIVES—

Majors in

Applied Music	13-30 hours
Music History and Literature	20-24 hours
Public School Music	12-16 hours
Music Theory	22-30 hours

GRADUATE DEGREES--The Department offers programs of graduate study in Music to a limited number of students. For information apply to the Dean of the Graduate School.

Undergraduate Courses

- 43.101 ELEMENTARY THEORY (4) Course integrated to include harmony, ear-training, and sight singing. Chord construction, triads, and inversions. Simple rhythmic, melodic and harmonic dictation. FALL.
- 43.102 ELEMENTARY THEORY (4) Dominant and secondary seventh chords. Non-chordal tones, simple modulations. Extended rhythmic, melodic, and harmonic dictation. *Prerequisite*, 43.101. SPRING.
- 43.201 APPRECIATION OF MUSIC (3) Materials of music as they relate to listening. Survey of principal forms through a study of representative works. Aural analysis. FALL.
- 43.202 APPRECIATION OF MUSIC (3) Critical survey of composers and styles of the classical, romantic, and modern periods. Aural analysis. SUMMER. SPRING.
- 43.203 ADVANCED THEORY (4) Advanced harmony and ear-training. Ninth, eleventh, and thirteenth chords. Extended modulations. Advanced rhythmic, melodic, and harmonic dictation. *Prerequisite*, 43.202. FALL.
- 43.204 ADVANCED THEORY (4) Altered chords, dissonances, extended modulations, 20th century techniques. Contrapuntal and advanced rhythmic, melodic, and harmonic dictation. Keyboard harmony. *Prerequisite*, 43.203. SPRING.
- 43.205 ELEMENTARY CONDUCTING (1) Practical study of the technics of the baton. *Prerequisite, permission of the departmental chairman.*
- 43.206 ELEMENTARY CONDUCTING (1) Continuation of practical study of the technics of the baton. Introduction to score reading. *Prerequisite*, 43.205 or *permission of the departmental chairman.* SPRING.
- 43.250 CLASS INSTRUMENTAL STUDY (1) A two-session course. Class instruction in use of orchestral instruments. Preparation for teaching. Primarily for students of public school music. FALL AND SPRING.
- 43.251 CHORUS (1) Preparation and presentation of representative works from great choral literature of all periods. *Prerequisite, individual audition before the director.* FALL.
- 43.252 CHORUS (1) Continuation of 43.251. *Prerequisite*, 43.251 or *individual audition before the director.* SPRING.
- 43.253 ORCHESTRA (1) Preparation and presentation of great orchestral literature of all periods. *Prerequisite, individual audition before the director.* FALL.
- 43.254 ORCHESTRA (1) Continuation of 43.253. *Prerequisite*, 43.253 or *audition before the director.* SPRING.
- 43.301 HISTORY OF MUSIC¹ (3) Development of music in western civilization from the modal structures of the Greeks to the Baroque era. *Prerequisite*, 43.202 or *permission of departmental chairman.* FALL.
- 43.302 HISTORY OF MUSIC² (3) Development of music in western civilization from the Baroque era to the present day. *Prerequisite*, 43.301. SPRING.
- 43.303 COUNTERPOINT¹ (3) Strict counterpoint in the various species in two and three parts. *Prerequisite*, 43.102 or *permission of the departmental chairman.* FALL.

- 43.304 COUNTERPOINT² (3) Strict counterpoint in the various species in four and five parts. Free counterpoint. *Prerequisite*, 43.303. 1955 SPRING.
- 43.305 ORCHESTRATION (3) Scoring for instrumental groups. Arrangements for orchestra from piano and vocal scores. *Prerequisite*, 43.204 or permission of departmental chairman. 1954 SPRING.
- 43.306 FORM AND ANALYSIS (3) Harmonic and formal analysis of representative master works from all periods. *Prerequisite*, 43.204 or permission of departmental chairman. 1954 FALL.
- 43.307 ADVANCED CONDUCTING¹ (1) Score reading. Special technics for instrumental groups. Rehearsal routines. *Prerequisite*, permission of departmental chairman. FALL.
- 43.308 ADVANCED CONDUCTING² (1) Score reading. Special technics for choral and instrumental groups. Rehearsal routines. *Prerequisite*, 43.307 or permission of departmental chairman. SPRING.
- 43.402 THE CLASSIC ERA (3) The preclassical schools. Haydn, Mozart, and Beethoven, masters of the classical style. Intensive study of the lives and music of each. *Prerequisite*, 43.302 and permission of departmental chairman. 1955 SPRING.
- 43.403 THE ROMANTIC PERIOD (3) Historical and cultural background. Intensive study of composers and works with emphasis on individual styles. *Prerequisite*, 43.302 and permission of departmental chairman. FALL.
- 43.405 COMPOSITION¹ (3) Study, through discussion and demonstration, of the creative processes in music. Guidance in the construction of original compositions in the smaller forms. Analysis of representative works in these forms. *Prerequisite*, permission of departmental chairman. FALL.
- 43.406 COMPOSITION² (3) Original work in classic, romantic, and modern idioms. Work adapted to individual needs and talents. *Prerequisite*, permission of departmental chairman. 1955 SPRING.

INDIVIDUAL LESSONS*

- 43.306 PIANO
43.411 ORGAN
43.412 VOICE
43.413 ORCHESTRAL INSTRUMENTS

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 43.501 THE BAROQUE ERA (3) Study of the thorough-bass period. Development of styles and technics leading to Bach and Handel, the culminating masters of the Baroque. FALL.
- 43.502 MUSIC OF THE 20th CENTURY (3) Development of modernism in music from impressionism to the present. Schools, technics, trends. SPRING.
- 43.507 ANALYTICAL STUDIES IN MUSICAL LITERATURE (3) Contrapuntal, harmonic, and structural analysis of music of various styles, forms, and media. May be repeated for credit. FALL AND SPRING.
- 43.601 RENAISSANCE MUSIC (3) Study of role in the history of music with detailed analysis of representative works. FALL.
- 43.602 SEVENTEENTH CENTURY MUSIC (3) Study of role in the history of music with detailed analysis of representative works. SPRING.
- 43.605 ADVANCED COMPOSITION (3) Guidance in writing in specified large forms. Work adapted to individual needs and talents. May be repeated for credit. FALL AND SPRING.
- 43.799 THESIS SEMINAR (3-6)

*Students who wish to enroll in these courses must arrange with the departmental chairman for an audition. Credit granted for individual lessons and practice is based on evaluation of performance and may be reduced or denied if the student does not give evidence of proper application or actual achievement. Fees charged all students are as follows:

Fulltime students majoring in music, \$50 a session for two credit hours of work, additional hours at the parttime rate.

Fulltime students not majoring in music and all parttime students, \$45 a session for each credit hour of work.

Practice room (if University facilities are used), \$5 a session.

Fees for individual lessons and practice are not refundable. Fees do not include charge for practice organs.

NURSING EDUCATION

Assistant Professor: GLADYS V. JORGENSEN.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—A program leading to the degree of Bachelor of Science with major in nursing education is available to students who have completed their professional nursing training and have been certified as registered nurses. Advanced credit up to 30-36 hours may be granted for their professional training and applied toward the total of 126 hours required for a degree. Students qualify for the bachelor's degree upon completion of additional University and departmental requirements described below.

UNIVERSITY REQUIREMENTS	38-42 hours
DEPARTMENTAL REQUIREMENTS—	
Major courses	15 hours
45.300 Foundations of Nursing Education (2), 45.301 Social and Health Aspects of Nursing (2), 45.420 and 45.421 Teaching Nursing in Clinical Fields ¹ and ² (4), 45.420 and 45.421 Administration of the Hospital Nursing Unit ¹ and ² (4), 45.490 Undergraduate Research Project (3).	
Related courses	24 hours
Psychology, sociology.	
Tool courses	3 hours
23.170 Voice and Diction (3).	
ELECTIVES	6-16 hours

Undergraduate Courses

- 45.300 FOUNDATIONS OF NURSING EDUCATION (2) Historical survey of foundations, present status, and trends in nursing education. FALL.
- 45.301 SOCIAL AND HEALTH ASPECTS OF NURSING (2) Philosophy of individualized patient care with integration of social, economic, psychological factors involved. Community resources available to the hospital patient for maintenance of health. SPRING.
- 45.410 TEACHING NURSING IN CLINICAL FIELDS¹ (2) Functions and responsibilities of clinical instructor; content and methods for the clinical course; planned program of experience for students; measurement of student attainment. FALL.
- 45.411 TEACHING NURSING IN CLINICAL FIELDS² (2) Continuation of 45.410, which is prerequisite to this course. SPRING.
- 45.420 ADMINISTRATION OF THE HOSPITAL NURSING UNIT¹ (2) Principles, problems, methods of organization of hospital nursing unit. Functions of head nurse in hospital organization and in community health program. FALL.
- 45.421 ADMINISTRATION OF THE HOSPITAL NURSING UNIT² (2) Continuation of 45.420, which is prerequisite to this course. SPRING.
- 45.363 NEUROLOGIC NURSING (1) Nursing care of patients with neurological and neuro-surgical conditions in the hospital, home, or community. Mental mechanisms involved in patients with these diseases. SPRING.
- 45.468 PRACTICUM IN PSYCHIATRIC NURSING¹ (3) Planned observation or participation in psychiatric therapies; supervised experience as a staff nurse, head nurse, supervisor. Analytical reports submitted monthly. FALL.
- 45.469 PRACTICUM IN PSYCHIATRIC NURSING² (3) Continuation of 45.468, which is prerequisite to this course. SPRING.

PHILOSOPHY AND RELIGION

Professors: JOHN E. BENTLEY; BANCROFT W. SITTERLY.

Associate Professor: RALPH C. JOHN (Chairman).

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in philosophy or religion are advised to complete 57.200 General Psychology (3) and 65.201 Introduction to Anthropology (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS (major in religion)

Major courses 12 hours

BACHELOR OF ARTS

Major courses 24 hours

Related courses 12 hours

ELECTIVES—

Associate in Arts 12-16 hours

Bachelor of Arts 48-52 hours

Undergraduate Courses

- 47.150 (formerly 61.100) INTRODUCTION TO THE OLD TESTAMENT (3) Emphasis upon the substantive content of the Bible itself. Special attention given to the historical method and the canons of Biblical interpretation. FALL.
- 47.151 (formerly 61.101) INTRODUCTION TO THE NEW TESTAMENT (3) Christian beginnings in the light of the faith of the emerging church, the creation of a distinctive literature, and the inter-cultural forces that influenced its development. SPRING.
- 47.200 LOGIC AND THE SCIENTIFIC METHOD (3) Introduction to the nature of valid inference and its relation to the scientific method. Principles of reasoning; inductive and deductive processes of logical thinking. FALL.
- 47.201 INTRODUCTION TO PHILOSOPHY (3) Questions man has asked about himself, the world, and the origin, purpose, and destiny of life; representative answers given by the great thinkers. Prerequisite to all advanced courses in philosophy. FALL.
- 47.250 (formerly 61.200) LIFE AND TEACHINGS OF JESUS (3) Study of the career and teachings of Jesus of Nazareth. Nature and significance of His life for the history of mankind. FALL.
- 47.251 (formerly 61.201) LIFE AND LETTERS OF PAUL (3) Life, letters, missionary activities of Paul. The Pauline epistles with special reference to the writer's conception of human nature, the incarnation, the Christian life, and eschatology. SPRING.
- 47.300 HISTORY OF PHILOSOPHY: ANCIENT AND MEDIEVAL (3) Historical survey of representative philosophers from the early Greeks through the Renaissance. Place of philosophical ideas in the rise of western culture. FALL.
- 47.301 HISTORY OF PHILOSOPHY: MODERN (3) Philosophers from Descartes to Dewey. Appraisal of modern philosophical tendencies in their relation to scientific, social, political, and religious developments. SPRING.
- 47.303 AMERICAN PHILOSOPHY (3) Backgrounds and substance of American philosophy since colonial times. Role of philosophical ideas, European and indigenous, in the growth of the American spirit and culture. 1954 SPRING AND ALTERNATE YEARS.
- 47.350 (formerly 61.202) CLASSICS OF CHRISTIAN EXPERIENCE (3) Selected Christian classics from the time of Saint Augustine to the present. Meaning of religion and its individual and social expression through masterpieces of religious literature. 1954 FALL AND ALTERNATE YEARS.
- 47.351 (formerly 61.300) CHURCH HISTORY: SAINT PAUL TO THE REFORMATION (3) Growth and organization of the early Christian Church. Interaction of the church with secular cultures and ideologies. Rise of the Papacy; monasticism; missionary activity; development of doctrine. FALL.

- 47.352 (*formerly* 61.301) CHURCH HISTORY²: MODERN (3) The Reformation and its leaders. Conflict of church and state. Church history from the Protestant separation to the modern ecumenical movement. SPRING.
- 47.353 (*formerly* 61.302) COMPARATIVE RELIGION (3) Synoptic study of the world's living religions, their founders, literature, teachings, and values. Relationship of these religions to the life, thought, and institutions of the people whom they influence. 1955 SPRING AND ALTERNATE YEARS.
- 47.354 (*formerly* 61.303) CHRISTIAN BELIEF (3) Christian apologetics and its place in the intellectual interest of modern man. Introductory examination of Christian beliefs about God, the Bible, revelation, human nature, and destiny. 1955 FALL AND ALTERNATE YEARS.
- 47.400 PHILOSOPHY OF RELIGION (3) Nature of religion and the validity of its approach to experience and reality. Fundamental problems: good and evil, freedom and restraint, reason and revelation, faith, immortality, and God. 1954 FALL AND ALTERNATE YEARS.
- 47.402 ETHICS (3) Inquiry into the principles of moral valuation, their relation to factual judgment, and individual and social behavior. Evaluation of traditional schools and theories of ethics. 1955 SPRING AND ALTERNATE YEARS.
- 41.450 (*formerly* 61.402) PRINCIPLES OF RELIGIOUS EDUCATION (3) Education as employed by the church in its program of Christian nurture. Methods and materials. Evaluation of Sunday and week-day church school organizations. SPRING.

PHYSICAL EDUCATION

Assistant Professors: VIRGINIA HAWKE; HUGO SCHULZE (Chairman).

Instructor: ROBERT FRAILEY.

DEGREE PROGRAMS

UNDERGRADUATE DEGREE—Bachelor of Science (for men only).

UNIVERSITY REQUIREMENTS38-42 hours

Students majoring in physical education are advised to complete 9.110 General Zoology (4), 9.115 Human Anatomy and Physiology (4), 57.200 General Psychology (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

Major courses 36 hours

Including 49.120 First Aid: Safety Education and Athletic Training (3), 49.121 History and Principles of Health and Physical Education (3), 49.220 Leadership in Physical Education (2), 49.222 Leadership Procedure (3), 49.320 Kinesiology (4), 49.421 Organization and Administration of Physical Education and Athletics (3), 49.422 Health Education (3).

Related courses 25 hours

21.200 Introduction to Education (3), 21.301 Adolescent Development (3), 21.320 Psychology of Education (3), 21.340 Secondary School Curriculum (4), 21.342 and 21.343 Methods of Teaching in Secondary Schools¹ and ² (4), and 21.440 and 21.441 Principles of Education¹ and ² and at least 2 hours of practice teaching.

Tool courses 9 hours

23.170 Voice and Diction (3), 41.100 and 41.101 Mathematics in Human Affairs¹ and ² (6).

ELECTIVES14-18 hours

Undergraduate Courses

49.100-200-300 REQUIRED PHYSICAL EDUCATION (1) Fulltime undergraduate students register for one hour a session until physical education requirement of 3 hours is completed. Program stresses outdoor activities when the weather is suitable and indoor activities at other times. A student participates in two different activities during each session. All classes meet on the Uptown Campus at Clendenen (Women) or Leonard Gymnasium (Men). FALL. SPRING.

49.120 FIRST AID, SAFETY EDUCATION, AND ATHLETIC TRAINING (3) First aid, athletic training, and treatment of conditions which legitimately fall in the sphere of the non-medical director. Causes, means of preventing accidents. Prerequisite to all courses in the department. Not offered 1953-1955.

49.121 HISTORY AND PRINCIPLES OF HEALTH AND PHYSICAL EDUCATION (3) Development, purpose, and scope of health, physical education, and recreation. Relation of principles of physical education to the school curriculum. Not offered 1953-1955.

49.220 LEADERSHIP IN PHYSICAL EDUCATION (2) Methods, theories, and techniques of teaching physical education classes and of organizing and supervising recreational activities. Prerequisite, 49.121. 1953 FALL.

49.221 ORGANIZATION AND ADMINISTRATION OF INTRAMURAL ATHLETICS (2) Theory and practice in the construction and administration of intramural sports programs. Extensive study of secondary school and college programs and equipment. Prerequisite, 49.220. 1954 SPRING.

49.222 LEADERSHIP PROCEDURE (3) Practical application of teaching procedures in adapting motor activities to the physical education program. Prerequisite, minimum of 12 credits in physical education. Required of all majors in physical education. 1954 FALL.

- 49.320 KINESIOLOGY (4) Science of bodily movement. Study of principal types of muscular exercise. Body mechanics in relation to posture, exercise, and sports. *Prerequisite*, 9.116. Not offered 1953-1955.
- 49.321 RECREATION PROGRAMS (3) Principles and policies of recreation agencies with attention to administration, legislation, centers, equipment, personnel, and program. Not offered 1953-1955.
- 49.322 RULES AND OFFICIATING (2) Intensive study of rules of intercollegiate, intramural, and interscholastic sports. Techniques and methods of officiating with practice under supervision. 1955 SPRING.
- 49.323 COACHING MINOR SPORTS (3) Principles, methods, and strategy used in coaching minor sports. Fundamentals, systems, and equipment used by coaches. 1954 FALL.
- 49.324 COACHING MAJOR SPORTS (3) Principles, methods, and strategy used in coaching major sports. Fundamentals, systems, and equipment used by coaches. 1953 FALL.
- 49.420 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION (3) Introduction to the use and interpretation of measurement techniques in physical education administration, survey of tests and measurements. *Prerequisite*, 69.200 *General Psychology*. Not offered 1953-1955.
- 49.421 ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION AND ATHLETICS (3) Departmental personnel, schedules, equipment, plant, and related problems. 1954 SPRING.
- 49.422 HEALTH EDUCATION (3) Seminar in advanced health education planned to meet state teaching requirements. School and community hygiene. 1955 SPRING.
- 49.425 DRIVER EDUCATION (2) Course to train secondary school teachers in the methods and materials of conducting a course in "Driver Education." Not offered 1953-1955.

PHYSICS*

Professor: BANCROFT W. SITTERLY (Acting Chairman).

Lecturers: PAUL KALAVSKI; KARL G. KESSLER.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Bachelor of Science, Bachelor of Arts. See page 56 for information concerning requirements for the degree of Bachelor of Science with major in distributed sciences.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in physics are advised to complete 51.200 and 51.201 General Physics¹ and ² (8) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

BACHELOR OF SCIENCE

Major courses 40 hours

51.200 and 51.201 General Physics¹ and ² (8), 51.305 and 51.306 Principles of Mechanics¹ and ² (6), 51.400 Electricity and Magnetism (4), 51.406 and 51.407 Laboratory Measurements¹ and ² (4), and 18 additional hours.

Related courses 12 hours

9.110 General Zoology (4), 15.110 and 15.111 General Chemistry¹ and ² (8).

Tool courses 15 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6), 41.320 Advanced Topics in the Calculus (3).

BACHELOR OF ARTS

Major courses 32 hours

51.200 and 51.201 General Physics¹ and ² (8), 51.400 Electricity and Magnetism (4), 51.406 and 51.407 Laboratory Measurements¹ and ² (4) and 16 additional hours.

Related courses 8 hours

15.110 and 15.111 General Chemistry¹ and ² (8).

Tool courses 12 hours

41.110 College Algebra (3), 41.140 Trigonometry and Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ².

ELECTIVES—

Bachelor of Science 17-29 hours

Bachelor of Arts 32-54 hours

Undergraduate Courses

51.100 PHYSICAL SCIENCE: ENERGY (3) Concept of energy and related concepts of physics in fields of mechanics, heat, electricity, radiant energy, and nuclear energy. Application to production, transportation, and use of power. Demonstrations, no laboratory. FALL-SPRING.

*Students must complete 41.110 College Algebra and 41.140 Plane Analytic Geometry before they may register for 51.200 General Physics¹ and they must complete 41.220 and 41.221 Differential and Integral Calculus (6) before they may register for courses in the department at the 300- or 400-level. Students majoring in physics are advised to complete 41.110 and 41.140 in their first year and to complete 41.200 and 41.221 and 51.200 and 51.201 concurrently during their second year.

- 51.200 GENERAL PHYSICS¹ (4) Introduction to the fundamental laws of mechanics, heat, and sound; applications to problems in mechanical, heat, and acoustic energy; properties of waves and the matter. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SUMMER. FALL.
- 51.201 GENERAL PHYSICS² (4) Introduction to the fundamental laws of electricity and magnetism, light, and modern physics; applications to simple problems. *Prerequisite*, 51.200. 3 hours of lecture, 4 hours of laboratory. Laboratory fee, parttime students, \$5. SUMMER. SPRING.
- 51.300 HEAT AND THERMODYNAMICS (3) Introduction to the fundamental ideas of heat and temperature, kinetic theory of gases, and elementary thermodynamics. Applications to problems in heat and thermodynamics. 1955 SPRING.
- 51.301 SOUND AND ACOUSTICS (3) Theory of wave motion; production, propagation, and detection of sound waves with applications to music and speech; acoustical measurements; acoustics of auditoriums and broadcasting stations. 1954 SPRING.
- 51.304 ELECTRONICS IN RESEARCH AND INDUSTRY (4) Electron ballistics and cathode ray tubes. Characteristics of vacuum and gas tubes; applications in communication and research including rectification, amplification, other vacuum tube circuits. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1955 SPRING.
- 51.305 PRINCIPLES OF MECHANICS¹ (3) Rectilinear kinematics and dynamics. Plane dynamics of a particle. Gravitation; centers of mass. Plane statics. Introduction to vector methods. 1953 FALL.
- 51.306 PRINCIPLES OF MECHANICS² (3) Oscillatory motion. Plane dynamics of a particle in the earth's field. Moments of inertia. Hooke's law. Vector equations of motion. Other selected topics. 1954 SPRING.
- 51.400 ELECTRICITY AND MAGNETISM (4) Behavior of electric charges and the forces determining their motion. Electro-magnetic phenomena. Direct current circuits. Magnetism. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1953 FALL.
- 51.401 ALTERNATING CURRENT NETWORKS AND SIMPLE TRANSIENTS (4) Effects of inductance and capacitance on alternating current circuits. Impedance, impedance matching, attenuators, filters, resonance phenomena. 3 hours of lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 FALL.
- 51.402 GEOMETRIC AND PHYSICAL OPTICS (3) Advanced theory including thick lenses, mirrors, apertures, nature and propagation of light, interference, diffraction, polarization, and double refraction. 1955 SPRING.
- 51.406 LABORATORY MEASUREMENTS¹ (2) Designed to give the advanced student practice in precise physical measurements in the fields of mechanics and heat. 1 hour lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1953 FALL.
- 51.407 LABORATORY MEASUREMENTS² (2) Precise physical measurements in the fields of sound and acoustics, optics, and modern physics. 1 hour lecture, 3 hours of laboratory. Laboratory fee, parttime students, \$5. 1954 SPRING.
- 51.408 MODERN PHYSICS¹ (3) Topics in atomic and diatomic molecular structure and spectroscopy. Introduction to Schrodinger technique of quantum mechanics. 1954 FALL.
- 51.409 MODERN PHYSICS² (3) Topics in nuclear and solid state physics including natural radioactivity and X-rays, the nuclear particles, fission and atomic energy, cosmic rays, semiconductors, transistors. 1955 SPRING.

POLITICAL SCIENCE AND PUBLIC ADMINISTRATION

Professors: HAROLD E. DAVIS; ERNST POSNER; CATHERYN SECKLER-HUDSON (Chairman).

Adjunct Professors: PAUL CAMP; HELEN L. CHATFIELD; FRANKLIN G. CONNOR; WILLIAM E. DEWEY; WILLIAM R. DIVINE; CHARLES H. GOODMAN; HAROLD F. GOSNELL; W. BROOKE GRAVES; CLIFTON E. MACK; FRITZ MORSTEIN MARX; ARNOLD MILES; WILLIAM L. RENO; S. MCKEE ROSEN; ROLLAND D. SEVERY; OLIVER C. SHORT; O. GLENN STAHL; CARL TILLER.

Associate Professors: GEORGE P. BUSH; LOWELL H. HATTERY; CHARLES M. HERSH; HAROLD H. ROTH; SAMUEL L. SHARP.

Assistant Professors: WILLIAM E. BIGGS; ROBERT E. GOOSTREE; PALMER C. PILCHER; EDGAR S. ROBINSON; LOIS E. TORRENCE.

Professorial Lecturers: KARL M. ARNDT; JOSEPH D. COOPER; MELVIN D. DAVIDOFF; NICHOLAS DE ROCHEFORT; JOHN C. HONEY; HOWARD K. HYDE; MARTIN KRIESBERG; LYMAN MOORE; E. E. NAYLOR; ELI E. NOBELMAN; ROY V. PEEL; ALDO L. RAFFA; PHILIP R. RODGERS; JOHN C. SHOVER; HANS SPEIER; EARL STRONG; JAMES D. TELLER; R. R. ZIMMERMAN.

Lecturers: KENNETH P. BORGES; RICHARD G. BROWN; ERNEST BRYAN; JOHN M. CLARKE; W. PHILLIPS DAVIDSON; ALEXANDER GEORGE; MORRIS A. GREENE; RANDY H. HAMILTON; WALTER O. JACOBSON; OTTO KIRCHHEIMER; ALBERT P. MASLOW; JOHN L. MCGRUDER; LEWIS M. NIXON; HOWARD E. PAGE; JAMES C. STEPHENS; ELDON E. SWEETZ.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Public Administration, Associate in Arts, Bachelor of Science in Public Administration, Bachelor of Science in Social Science, Bachelor of Arts.

UNIVERSITY REQUIREMENTS 38-42 hours

Students majoring in political science or public administration are advised to complete 53.200 American Government: National (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN PUBLIC ADMINISTRATION (concentration in financial management, personnel administration, public administration, and record administration)

Major courses 12-24 hours

Including 53.400 Introduction to Public Administration (3), 54.420 Organization and Management or 54.421 Administrative Organization (3).

Related courses 0-9 hours

ASSOCIATE IN ARTS (concentration in political science)

Major courses 24 hours

Including 53.201 American Government: State and Local (3) or 53.300 American Government: Municipal (3)

BACHELOR OF SCIENCE IN PUBLIC ADMINISTRATION (concentration in one or more of the following fields: history of administration, organization and management, public personnel administration, public relations in administration, public budgetary administration, record and archives administration, and public law)

Major courses 33 hours

Including 53.201 American Government: State and Local or 53.300 American Government: Municipal (3), 53.400 Introduction to Public Administration (3), and 27 additional hours at least 3 of which must be in each of the following areas: organization and management, personnel administration, budgetary administration, public relations.

Related courses 12 hours

Advanced courses in political science.

BACHELOR OF SCIENCE IN SOCIAL SCIENCE and BACHELOR OF ARTS (concentration in political science)

Major courses 36 hours

Including 53.201 American Government: State and Local or 53.300 American Government: Municipal (3), and 30 additional hours, at least 9 of which must be in one of the following areas and at least 3 in each of the others: public law, governmental processes, political theory, comparative government and politics, public administration, and research methods.

Related courses 12 hours

3 hours of advanced work in each of the following areas: economics, history, international relations and organization, and sociology and anthropology.

ELECTIVES—

Associate in Public Administration 0-7 hours

Associate in Arts 0-4 hours

Bachelor of Science in Public Administration 39-43 hours

Bachelor of Science in Social Science and Bachelor of Arts 36-40 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in political science and in public administration. For information concerning requirements apply to the dean of the Graduate School.

Undergraduate Courses

BASIC COURSES

53.200 **AMERICAN GOVERNMENT: NATIONAL** (3) Basic principles of the Federal Government; legislative, executive, administrative, and judicial organization and functioning; citizenship, elections, political parties, and interest groups; current activities and problems. SUMMER. FALL. SPRING.

53.201 **AMERICAN GOVERNMENT: STATE AND LOCAL** (3) Constitutional basis, organization, and functioning of state and local government; political parties and popular control; interrelationships of states and their subdivisions; the governor and state administration. SUMMER. FALL. SPRING.

53.300 **AMERICAN GOVERNMENT: MUNICIPAL** (3) Study of the organization of urban government in the U. S. Special emphasis on the adequacy of municipal governments to perform essential services. SUMMER. FALL. SPRING.

53.400 **INTRODUCTION TO PUBLIC ADMINISTRATION** (3) Basic survey of the processes of public administration; personnel, organization, budgeting, use of administrative powers, public relations. Emphasis on principles, literature, problems and issues, application. FALL. SPRING.

53.401 **TUTORIAL READING COURSE IN PUBLIC ADMINISTRATION** (3) SUMMER.

POLITICAL THEORY

- 53.420 EVOLUTION OF POLITICAL INSTITUTIONS (3) Analysis of major institutions with specific reference to the shaping of the American tradition. Evolution of political concepts in their social and political context. SUMMER. FALL. SPRING.

POLITICAL DYNAMICS

- 53.360 GOVERNMENT AND THE PEOPLE. (3) Introduction to the political dynamics of democracy. Policy formulation and the various channels of citizen representation. Governmental public relations, reporting, and response to political activity. SUMMER. FALL. SPRING.

COMPARATIVE GOVERNMENT AND POLITICS

- 53.370 COMPARATIVE GOVERNMENT (3) Comparative analysis of the presidential, parliamentary, plural executive, and one-party systems of national government, with emphasis on the governments of western Europe. SUMMER. FALL. SPRING.

BUDGETARY ADMINISTRATION AND FISCAL POLICY

- 54.410 PUBLIC BUDGETING (3) Descriptive and analytical study of public budgeting in the U. S. Differing characteristics of federal, state, and local systems. Processes and problems involved. SUMMER. FALL. SPRING.

ORGANIZATION AND MANAGEMENT

- 54.420 ORGANIZATION AND MANAGEMENT (3) Systematic study of principles and processes involved in organizing and managing large and complex establishments; evaluating an organization. Issues and trends. Practical application and illustration. FALL. SPRING.
- 54.421 ADMINISTRATIVE ORGANIZATION (3) Development, present structure and function of administrative organization in the federal government. Overhead management; departmental system; the field service; continuing problems of administrative reorganization. FALL. SPRING.

RECORD AND ARCHIVES ADMINISTRATION

- 54.440 MANAGEMENT OF GOVERNMENT RECORDS (3) Basic course in the field. Topics include history, organization, and function of record offices and archival agencies; origin and nature of documentary material; reference service. *Prerequisite, permission of the instructor.* 1953 FALL.
- 54.441 ORGANIZATION AND PROCEDURE FOR HANDLING GOVERNMENT RECORDS (3) Examination of performance of record function in government agencies through organization and procedure in various offices of origin as well as on agency-wide basis. *Prerequisite, 54.440 or record work experience.* 1954 FALL.
- 54.442 ARRANGEMENT, CLASSIFICATION, AND INDEXING OF GOVERNMENT RECORDS (3) Organization of reference units; systems of arrangement, classification, and coding; preparation of indexes and other finding aids. *Prerequisite, 54.440 or record work experience.* 1954 SPRING.
- 54.443 MANAGEMENT OF SPECIAL TYPES OF GOVERNMENT RECORDS (3) Consideration of special types of government records in relation to problems they cause in record keeping such as personnel, accounting, public relations, and statistics. *Prerequisite, 54.440 or record work experience.* 1955 SPRING.

PERSONNEL ADMINISTRATION

- 54.450 INTRODUCTION TO PUBLIC PERSONNEL ADMINISTRATION (3) Historical development of public personnel administration at the national level; examination of structure, principles, major procedures; relationships of personnel to other staff and line elements. SUMMER. FALL. SPRING.
- 54.451 SUPERVISION IN ADMINISTRATION (3) Development of supervisory relationships in government and industry; supervisory functions and responsibilities; areas of supervisory action; methods and tools of supervision; present problems and trends. SPRING.

INTERN PROGRAMS

- 54.498 WASHINGTON SEMESTER: SEMINAR IN GOVERNMENTAL PROCESSES (3) For advanced students from the University and cooperating institutions. Study of government in action. Reports, conferences, lectures, visits to governmental agencies. Guided evaluation of experience. FALL. SPRING.
- 54.499 WASHINGTON SEMESTER: INDIVIDUAL PROJECTS (3) Analytical reports prepared in consultation with advisers on a particular governmental problem or agency. For advanced students from the University and cooperating institutions. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

BASIC COURSES

- 53.500 THE PROCESS OF GOVERNMENT IN THE U. S. (3) Intensive study of American government in action. Special emphasis on constitutional bases; organization, operation, and procedure; political dynamics; current problems. *Prerequisite, graduate standing.* SUMMER. FALL. SPRING.
- 53.501 PRINCIPLES AND PROCESSES OF PUBLIC ADMINISTRATION (3) Basic survey of the processes of public administration: personnel, organization, budgeting, use of administrative powers, public relations. Emphasis on principles, literature, problems and issues, application. *Prerequisite, graduate standing.* Not open to students who have completed 53.400. SUMMER. FALL. SPRING.
- 53.502 EVOLUTION OF PUBLIC ADMINISTRATION (3) Comparative study of development of administrative processes and institutions. Emphasis on the executive branch; differentiation of functions into departments; growth of the civil service. SPRING.
- 53.504 TECHNOLOGY AND ADMINISTRATION (3) Emergence of the machine-power age. Transition to advanced technological urban civilization. Role, objectives, methods of administration. Implications of technology for international administration. Case illustrations. 1954 SPRING.
- 53.505 TECHNOLOGICAL CHANGE AND THE SOCIAL ORDER (3) Consideration of inter-related social change. Role, objectives, and methods of major institutions; case studies to illustrate impact of technological development on government; implications for internationalism. 1955 SPRING.
- 53.507 RESEARCH METHODS IN GOVERNMENT AND PUBLIC AFFAIRS (3) Description and evaluation of research methods used in the study of government. Concepts and techniques of traditional methods, situational analysis, measurement, research strategy, and reporting. SUMMER. FALL.
- 53.508 DEVELOPMENT OF FEDERAL ADMINISTRATIVE INSTITUTIONS IN THE U. S. (3) Origins and growth to World War II of federal administrative institutions; administrative problems encountered; impact of personalities; developing concepts and practices of public management. 1954 FALL.

POLITICAL THEORY

- 53.520 EARLY POLITICAL THEORY (3) Analysis of the contributions of political thinkers from Plato to the end of the middle ages. Special emphasis on the ideological background of western civilization. FALL.
- 53.521 MODERN POLITICAL THEORY (3) Examination of contributions of political thinkers from Machiavelli to the present. Emphasis on the concept of the state and its relation to culture and society. SUMMER. SPRING.
- 53.525 AMERICAN POLITICAL THEORY (3) Development and significance of political ideas that have influenced the institutional growth of the American system of government, with special emphasis on the 20th century. SPRING.
- 53.620 CONTEMPORARY IDEOLOGICAL ISSUES (3) Relationship of the individual to modern government; thesis of civic behavior; political morality and personal ethics. *Prerequisite, a course in political theory or permission of instructor.* FALL.
- 54.720 ADVANCED POLITICAL THEORY (3) For advanced graduate students interested in directed reading of original treatises in the field of political theory. FALL. SPRING.

GOVERNMENTAL PROCESSES

- 53.530 THE LEGISLATIVE PROCESS (3) Analysis of lawmaking bodies. Emphasis on evolution of their functions, methods, procedures; relationships with Executive Office of the President, administrative agencies, judiciary; problems and trends. SUMMER. FALL.
- 53.531 THE NATIONAL EXECUTIVE (3) Analytical and historical study of the American Presidency as an institution of government. Formal and informal objectives, authority, powers; organization; operating techniques; public relations. FALL.
- 53.532 THE JUDICIAL PROCESS (3) Nature of the judicial process; organization, jurisdiction of courts; review of civil and criminal procedure; judicial review; selection of judges. Relation to legislative, administrative branches. SUMMER. SPRING.
- 53.533 LEGISLATIVE-ADMINISTRATIVE RELATIONSHIPS (3) Analysis of relationships between legislative and administrative processes of federal government. Problems involved; limitations and potentialities of cooperative relationships in a democracy. SPRING.

- 53.534 INTERGOVERNMENTAL RELATIONSHIPS (3) An exploration of the relationships between the several units of government and between headquarters and the field offices. Emphasis on current issues and trends. SUMMER. SPRING.
- 53.630 FORMATION OF PUBLIC POLICY (3) Workshop for the study of formal and informal influences which condition the development and execution of public policy. Practical illustrations and case work. SUMMER. SPRING.
- 53.631 DESIGN OF LEGISLATION (3) Workshop in research and draftsmanship involved in the preparation of bills for introduction into Congress. Detailed study of the theory and mechanics of federal legislation. 1955 SPRING.
- 53.632 PROBLEMS OF LEGISLATION AND LAW-MAKING (3) Analysis of problems peculiar to the American law-making process. Relationships with Executive Branch, government agencies, public. Practical applications. 1954 SPRING.
- 53.730 SEMINAR IN AMERICAN GOVERNMENT: ADVANCED PROBLEMS (3) For advanced students interested in special research projects in the field of American government. SPRING.

PUBLIC LAW

- 53.536 GOVERNMENT REGULATION OF BUSINESS (3) Constitutional basis for regulation of business; methods of regulation of commerce, transportation, monopolies, unfair competition, trade practices, labor relations, security exchanges, agriculture, production, price-fixing. FALL.
- 53.550 ELEMENTS OF JURISPRUDENCE (3) Principal theories of the nature and force of law; scientific method in law. Relation of the law to other modern social institutions. 1954 FALL.
- 53.551 COMPARATIVE LEGAL INSTITUTIONS (3) Development and growth of legal agencies since primitive times. Interrelations between law and government. Early legal institutions of Europe and their influence on the modern judicial system. 1955 SPRING.
- 53.552 ADMINISTRATIVE LAW (3) General nature of administrative law; types of administrative action and enforcement; analysis of rule-making and adjudication; administrative due process; judicial review. *Prerequisite*, 53.200. SPRING.
- 53.555 CONSTITUTION OF THE U. S.: DEVELOPMENT (3) Bases of constitutional government, judicial exposition of principles of constitutional government from the Constitutional Convention to the Reconstruction period. Growth of federal system, powers and limitations. SUMMER. FALL.
- 53.556 CONSTITUTION OF THE U. S.: INTERPRETATIONS (3) Major trends in constitutional interpretation since the Reconstruction, with emphasis on changing nature of the federal system, relation of public and private interests. SUMMER. SPRING.
- 54.750 SEMINAR IN U. S. PUBLIC LAW (3) Advanced seminar for graduate students interested in special research projects in the field of U. S. public law. FALL.

POLITICAL DYNAMICS

- 53.503 THE PUBLIC AND ADMINISTRATION (3) Nature and significance of administration in modern democracy. Pressure groups; interaction between the public and administration; clientele government; responsible executive coordination. Case studies. FALL.
- 53.560 PUBLIC OPINION (3) Concepts of public opinion and propaganda; their formation and role in democratic society; measurement and evaluation of public opinion and propaganda. SUMMER. FALL.
- 53.561 PUBLIC OPINION MEASUREMENT (3) Methods of measuring public opinion; polling methods; questionnaire construction, sampling, interviewing, analysis of returns; content analysis of mass communications; conducting research on radio and motion pictures. SPRING.
- 53.562 POLITICAL PARTIES AND ELECTORAL PROBLEMS (3) Analysis of party processes in formal government. Party organization; politicians and political leaders; human nature in politics; spoils system; nominating systems, campaign methods; elections; issues and trends. SUMMER. FALL.
- 53.563 PRESSURE GROUPS AND PROPAGANDA (3) Methods and techniques of informal control in politics and administration. Group pressures; media of communication; propagandist activity; factors conditioning public opinion; problem areas. SPRING.
- 53.564 POLITICAL BEHAVIOR (3) Intensive analysis of human behavior in the political process. Political power, leadership, the role of organization, citizen political activity. Evaluation of recent political behavior research. SUMMER. FALL. SPRING.
- 53.565 PARTICIPATION IN POLITICS (3) Effective citizen participation in politics with emphasis upon practical techniques. Campaigns in process; from local party organization to elections. Citizen participation in public policy formulation. SPRING.

- 53.566 COMPARATIVE POLITICAL PARTIES (3) Comparative analysis of the political party systems of Europe and other principal countries. SUMMER. FALL.
- 53.567 GOVERNMENTAL REPORTING (3) Reporting by government to citizens in a democracy. Theory, limitations, media, formal and informal, evaluation; improvement in governmental reporting. Federal, state, and local jurisdictions. 1954 FALL.
- 53.660 INTERNATIONAL POLITICAL COMMUNICATION (3) Communication in the international political process. Problems of propaganda; relationship of power and communications: person-to-person communication; mass media and their limitations; problems, trends. FALL. SPRING.
- 53.661 FIELD STUDY IN PUBLIC OPINION AND PRESSURE GROUPS (3) Supervised field projects in conducting opinion surveys and behavioral studies. FALL.
- 54.740 SEMINAR IN POLITICAL DYNAMICS (3) Advanced seminar for graduate students interested in special research projects in the field of political dynamics. SPRING.

COMPARATIVE GOVERNMENT AND POLITICS

- 53.570 GOVERNMENT AND POLITICS OF WESTERN EUROPE (3) Comparative analysis of the political systems of Great Britain, France, Switzerland, and Scandinavia; evolution and current operation; trends and problems of political reorganization. FALL.
- 53.571 GOVERNMENT AND POLITICS OF CENTRAL EUROPE (3) Comparative analysis of the political systems of central Europe. The breakdown of democracy and the rise of dictatorship. Current problems and trends in modern government. 1955 SPRING.
- 53.572 GOVERNMENT AND POLITICS OF EASTERN EUROPE (3) History and philosophy of political institutions in Poland, Czechoslovakia, Yugoslavia, Bulgaria, Hungary, Rumania. Theory and practice of "New Democracy." Influence of Soviet theory and interests. 1954 FALL.
- 53.573 GOVERNMENT AND POLITICS OF THE SOVIET UNION AND EASTERN EUROPE (3) Basic theories of communism; evolution of the Soviet system; organization and operation of Soviet Government; political systems of eastern European satellites and occupied countries. SUMMER. FALL.
- 53.574 GOVERNMENT AND POLITICS OF THE FAR EAST (3) Development, organization, and functions of government in China, Japan, Philippines, Siam, Burma, Hindustan, and Pakistan. Economic, political, cultural, and regional relationships. 1954 SPRING.
- 53.575 GOVERNMENT AND POLITICS OF LATIN AMERICA (3) Factors influencing political life, constitutions and constitutional issues; federal and unitary states, the presidency, legislatures, judiciary, political parties, electoral systems; budgets; trends in legislation. SUMMER. SPRING.
- 53.576 GOVERNMENT AND POLITICS OF THE BRITISH COMMONWEALTH (3) The constitutional basis of the United Kingdom. Political relationships and trends. 1955 SPRING.
- 53.577 PROBLEMS OF GOVERNMENT IN GREAT BRITAIN AND FRANCE (3) British and French experience with representative problems of government. Economic planning and controls; nationalization of industry; social services and the welfare state, political ideology, trends. 1954 SPRING.
- 53.578 LEADERS OF LATIN AMERICAN THOUGHT AND POLITICS (3) Representative Latin American statesmen and leaders of thought, and their historical background as a basis for the analysis of problems of political leadership. SUMMER. SPRING.
- 53.579 PROBLEMS OF GOVERNMENT IN COMMUNIST COUNTRIES (3) Selected problems relating to government institutions in the Soviet Union and Soviet "orbit". Techniques of acquisition of power, constitutionalism in revolutionary situations, tensions in communist-dominated countries. 1954 SPRING.
- 53.670 PROBLEMS OF GOVERNMENT IN EASTERN EUROPE (3) Analysis of special problems of government in the Soviet "orbit". Poland, Czechoslovakia, Yugoslavia, Bulgaria, Hungary, and Rumania; influence of Soviet theory. Trends. 1955 SPRING.
- 54.770 SEMINAR IN COMPARATIVE GOVERNMENT (3) Advanced seminar for graduate students interested in special research projects in the field of comparative government. SUMMER.

STATE AND LOCAL GOVERNMENT

- 53.580 CURRENT PROBLEMS IN STATE AND LOCAL GOVERNMENT (3) Trends and issues in states and municipalities; problems of coordination in the American federal system. FALL.
- 53.581 COMPARATIVE LOCAL GOVERNMENT AND ADMINISTRATION (3) Comparative study of local governments in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland, and countries occupied after World War II. Emphasis on contemporary situation. SPRING.

- 53.585 LOCAL GOVERNMENT PLANNING (3) Problems involved in developing and executing planning in urban communities. Composite essentials, obstacles. Tasks of administration. 1953 FALL.
- 53.586 CITY MANAGEMENT IN THE U. S. (3) Principles and practices of administering governmental functions in urban life. Emphasis on the administrator; modern concepts and methods of administration, current problems; trends. FALL.
- 53.587 MUNICIPAL FINANCIAL ADMINISTRATION (3) Current developments in the administration of fiscal functions in American cities, including budgeting, treasury management, accounting, and auditing. Problems and trends. SPRING.
- 53.588 GOVERNMENT AND ADMINISTRATION OF METROPOLITAN WASHINGTON (3) Government of metropolitan Washington and its adequacy in meeting social, economic, and political problems and issues of the community. Comparative analysis with other metropolitan administrations. 1953 FALL.
- 53.589 PROBLEMS OF MUNICIPAL GOVERNMENT (3) Administrative, organizational, and political problems of municipal governments today. Case histories, suggested solutions, current thinking, practice and trends. Variations in cities according to size. SPRING.
- 54.780 SEMINAR IN MUNICIPAL GOVERNMENT AND ADMINISTRATION (3) Advanced seminar for graduate students interested in special research projects in the field of municipal government and administration. SPRING.

BUDGETARY ADMINISTRATION AND FISCAL POLICY

- 54.510 BUDGETING: AN INSTRUMENT OF PLANNING AND MANAGEMENT (3) Theory and principles of budgeting. Evolution of federal budgetary administration; relationships to fiscal policy and the national economy; problems and current trends. *Prerequisite, a course in administration or experience in budgeting.* SPRING.
- 54.511 FEDERAL BUDGETARY PROCEDURE (3) Processes and procedures in federal budgetary administration from the operating viewpoint. Preparation and justification of budget estimates; budget execution; techniques of agency budgeting. *Prerequisite, a course in administration or experience in budgeting.* SUMMER. FALL.
- 54.512 FEDERAL FISCAL ISSUES (3) Budgetary magnitudes in relation to full employment levels of national income problems raised by European aid, national defense, public debt, and by income and taxation. SPRING.
- 54.513 GOVERNMENTAL SUPPLY MANAGEMENT (3) Principles, policies, and methods applicable to the purchasing of supplies, materials, and equipment for use in governmental agencies. Relationship of supply management to administrative management. *Prerequisite, a course in administration or experience in purchasing.* SPRING.
- 54.514 PROBLEMS OF ACCOUNTING IN THE FEDERAL GOVERNMENT (3) Federal fiscal administration with emphasis on the role of governmental accounting. Progress toward improving accounting systems; major problems; relationship to budgetary management and fiscal policy. *Prerequisite, a course in accounting or experience in the field.* SPRING.
- 54.515 COMPTROLLERSHIP AND PUBLIC BUDGETING (3) Comptrollership and public budgeting. Unique problems of government; institutional setting; organization; functions; operational relationships; problems; implementation of comptrollership; trends. SUMMER. FALL.
- 54.516 GOVERNMENT PURCHASING AND CONTRACTING (3) Principles and practices of purchasing and contracting in government. Competitive methods; relationship of specifications and bid evaluation; commodities and sources; contracting methods. Unique problems of government. *Prerequisite, a course in administration or experience in purchasing.* FALL.
- 54.610 PROBLEMS IN PUBLIC BUDGETING (3) Trends, problems, and issues in public budgeting. *Prerequisite, a basic course in budgeting or experience in the field.* SUMMER. FALL. SPRING.
- 54.710 SEMINAR IN BUDGETARY ADMINISTRATION (3) Advanced seminar for graduate students interested in special research projects in the field of federal budgetary administration. SUMMER. FALL. SPRING.

ORGANIZATION AND MANAGEMENT

- 54.520 PSYCHOLOGY OF MANAGEMENT (3) Study and application of psychological principles pertinent to modern administrative management. Significance of understanding individual and group behavior, abilities, and attitudes. FALL.
- 54.521 HUMAN RELATIONS IN MANAGEMENT (3) Application of principles of scientific method to human relations in work situations. Examination of recent research in the field; discussion concerning practical application to administrative organizations. FALL.
- 54.522 HUMAN RELATIONS IN MANAGEMENT: ADVANCED (3) Advanced course in the application of principles of scientific method to human relations in work situations. SPRING.

- 54.523 DEVELOPMENT OF SCIENTIFIC MANAGEMENT (3) Evolution of scientific management; contributions of Taylor, Gantt, Gilbreth, Emerson, Barth, and others. Application in public administration. Philosophy of scientific management; significance and trends. FALL.
- 54.524 COMPARATIVE PUBLIC ADMINISTRATION (3) The administrative process in Great Britain, France, Italy, Belgium, the Netherlands, Switzerland, and the occupied countries of Europe with particular emphasis on recent developments. SUMMER. SPRING.
- 54.525 PLANNING IN GOVERNMENT (3) Theory and purpose of planning in government at policy and operating levels. Emphasis on program planning; accomplishments and limitations; some comparative study of planning at local government levels. SUMMER. FALL.
- 54.526 OFFICE MANAGEMENT AND CONTROL (3) Principles of management applicable to office situations. Office supervision; correspondence systems; space requirements; allocation; training personnel. SUMMER. FALL. SPRING.
- 54.527 WORK SIMPLIFICATION AND WORK MEASUREMENT (3) Possibilities and limitations of work simplification. Development of standards of measurement; uses of work measurement data; merits and relationship of work simplification and work measurements. SUMMER. FALL.
- 54.528 PRODUCTION PLANNING AND CONTROL (3) Principles of production planning and control in government. Planning flow of paper work, controlling flow of work, quality of work, and adjusting for human factors. SUMMER. SPRING.
- 54.529 ORGANIZING THE GOVERNMENT FOR WAR (3) Problems in organizing for possible total war, including the nature of total war; relationship of civilian and military authority; temporary vs. permanent agencies; centralization and direction. SPRING.
- 54.530 ADMINISTRATION OF RESEARCH ACTIVITIES IN GOVERNMENT (3) Principles and processes of administration as applied to governmental research activities. Consideration of unique problems in research administration. FALL.
- 54.531 MANAGEMENT PROBLEMS OF INTERNATIONAL AGENCIES (3) Peculiar problems of management in international agencies. Staffing, budgeting, planning, authorizing, operating, directing; public relations; coordination; communication and leadership. Interpersonal relationships. The place factor. FALL.
- 54.532 PROBLEMS IN GOVERNMENT REORGANIZATION (3) Principal problems of structural organization of the Executive Branch; review of past and current reorganization studies and proposals; analysis of means for effectuating needed organizational adjustments; evaluation of progress and prospects. *Prerequisite, permission of departmental chairman.* FALL.
- 54.620 ORGANIZATION AND MANAGEMENT: ADVANCED (3) Systematic study of principles and processes involved in organizing and managing large and complex establishments; evaluating an organization. Issues and trends. Practical application and illustrations. *Prerequisite, graduate standing.* FALL.
- 54.621 PSYCHOLOGY OF MANAGEMENT: ADVANCED (3) Special case work in the application of psychological principles relating to modern administrative management. *Prerequisite, 54.520.* SPRING.
- 54.622 APPLIED ADMINISTRATIVE MANAGEMENT (3) Seminar for administrators, operating officials, staff officers. Diagnosis of administrative ills; methods of improving administration; organizational and procedural problems; the techniques of administrative analysis. *Prerequisite, permission of departmental chairman.* FALL.
- 54.623 APPLIED ADMINISTRATIVE MANAGEMENT: ADVANCED (3) A seminar for administrators, operating officials and staff officers. The role of staff agencies in management; human factors and environmental obstacles to effective management. International developments. *Prerequisite, permission of departmental chairman.* SPRING.
- 54.624 EXECUTIVE LEADERSHIP IN GOVERNMENT (3) Qualifications for executive leadership; identification of talent; techniques and their development. Relationship of leadership to policy formation, decision-making, and operations. Patterns of organization influencing leadership. SPRING.
- 54.725 SEMINAR IN ORGANIZATION AND MANAGEMENT (3) Advanced seminar for graduate students interested in special research projects in the field of organization and management. SUMMER. SPRING.
- 54.785 SEMINAR IN RESEARCH ADMINISTRATION (3) Advanced seminar for graduate students interested in application of administrative principles to research situations. Individual projects. SPRING.

RECORD AND ARCHIVES ADMINISTRATION

- 54.542 HISTORY AND ADMINISTRATION OF ARCHIVES: BACKGROUNDS (3) History and present state of archival activities in the principal countries of the world, especially those in the U. S.; principles and practices of archives administration. Prospective students should consult with the instructor. FALL.

- 54.543 HISTORY AND ADMINISTRATION OF ARCHIVES: PRINCIPLES AND TECHNIQUES (3) Discussion of the most important phases of work with archives and manuscripts. Practical instruction in appraising and arranging records. Field trip to near-by state archival agency. *Prerequisite, 54.542 or permission of instructor.* SPRING.
- 54.640 DOCUMENTATION IN MANAGEMENT (3) Relation of management to documentation. *Prerequisite, permission of instructor.* 1954 FALL.
- 54.641 TREATMENT OF SUBJECT MATTER IN RECORD ADMINISTRATION (3) Analysis of the subject matter content of an agency's documentation for the purpose of formulating standard definitions and classifications for use in record administration. *Prerequisite, permission of instructor.* 1954 SPRING.

PERSONNEL ADMINISTRATION

- 54.550 PERSONNEL PSYCHOLOGY (3) Techniques of employee selection, placement, evaluation. Aptitude and achievement tests, rating methods, interviewing; motivation and morale; problems of fatigue and efficiency, accidents, and personnel rating. *Prerequisite, an introductory course in psychology, background in statistics recommended.* SUMMER. FALL. SPRING.
- 54.551 PROBLEMS IN PUBLIC PERSONNEL ADMINISTRATION (3) Selected problems in public personnel administration. Emphasis on the national level; evolution and trends. *Prerequisite, 54.450 or graduate standing.* SUMMER. SPRING.
- 54.552 FORMULATING PERSONNEL POLICIES AND PROCEDURES (3) Fundamentals of a government personnel program. Philosophy, techniques, methods; relation of operating procedures to fundamental policy; procedures of operating officials and procedures in centralized and decentralized personnel organizations. SPRING.
- 54.553 SELECTION AND PLACEMENT (3) Selection processes and techniques, initial placement and internal placement. Emphasis on manpower utilization, inventories of skills and reduction in force. SUMMER. SPRING.
- 54.554 POSITION CLASSIFICATION (3) Position classification as related to governmental administration as a whole. Relationship to budgeting, planning, organizing, staffing; comparative methods and plans in industry, international agencies, military services. FALL.
- 54.555 TRAINING IN THE PUBLIC SERVICE (3) Principles, programs, and practices in organizing, conducting, and evaluating training programs for training and operating officials and those preparing for such responsibilities. SPRING.
- 54.556 EMPLOYER-EMPLOYEE RELATIONS IN GOVERNMENT (3) Effective relationships between employer and employees. Objectives, methods, techniques; significance and trends. FALL.
- 54.557 COUNSELING IN PUBLIC MANAGEMENT (3) General principles underlying counseling relationship. Limitations of counseling. Qualifications of counselors. Application to specific problem situations by discussion and demonstration. SPRING.
- 54.558 EMPLOYEE EVALUATION¹: PERFORMANCE STANDARDS AND RATINGS (3) Problems in rating employee performance. Proposed solutions. Developing performance standards. Use in rating employee performance. Planning for employee development based on data from performance ratings. SUMMER. SPRING.
- 54.559 EMPLOYEE EVALUATION²: TESTING AND MEASURING (3) Basic concepts and principles of administering, scoring, standardizing, validating, interpreting, and using aptitude, performance, attitudes, interests, and personal traits tests in employee evaluation programs. FALL. SPRING.
- 54.560 EMPLOYEE EVALUATION³: QUALIFICATIONS ANALYSIS (3) Scope of qualifications analysis; relation to job analysis and psychology; psychological categories; principles and problems; recording qualifications in job specifications; job specifications in employee evaluation. 1954 SUMMER.
- 54.561 EMPLOYEE EVALUATION⁴: INTERVIEWING AND PERSONNEL DATA ANALYSIS (3) Types of interviewing; planning, conducting, and interpreting the interview; obtaining personal history data; analyzing personal data; rating education and experience; validation; use in employee evaluation. 1954 FALL.
- 54.562 PROBLEMS IN MILITARY-CIVILIAN MANAGEMENT (3) Adapting personnel and other management principles to the military-civilian work situation. Techniques for developing mutual understanding and teamwork. SPRING.
- 54.563 GOVERNMENT PERSONNEL PROBLEMS ABROAD (3) Identification and analysis of special problems of federal personnel administration in foreign countries, territories, and possessions. Practices, problems and trends. Special reports by experienced officials. SPRING.
- 53.582 PUBLIC PERSONNEL ADMINISTRATION (3) Directed reading in public personnel administration. SUMMER.
- 54.663 TRENDS IN PERSONNEL MANAGEMENT (3) Seminar in current trends and issues in personnel management. Consideration of interrelationships of public and private personnel. Individual projects selected by the student and instructor. *Prerequisite, a course in personnel management or training and experience in professional aspects of the field.* SPRING.

- 54.664 CURRENT PROBLEMS IN MANPOWER UTILIZATION (3) Methods in manpower utilization in terms of national manpower supply and demand. Job rebuilding, training, transfer, incentives; group problems and interests; comparisons between industry and government. FALL.
- 54.755 SEMINAR IN EMPLOYEE EVALUATION (3) Advanced seminar for graduate students interested in special research projects in the field of employee evaluation. SPRING.
- 54.760 SEMINAR IN PERSONNEL ADMINISTRATION (3) Advanced seminar for graduate students interested in special research projects in the field of personnel administration. FALL.
- 54.762 PUBLIC PERSONNEL RESEARCH (3) Research methods in the field of personnel. Individual research projects by each student to gain experience in planning, conducting and reporting a research project. SPRING.

INSTITUTES

- 31.050 INSTITUTE FOR TEACHERS OF GOVERNMENT AND ADMINISTRATION (No credit)
See page 76.
- 31.051 INSTITUTE ON ADMINISTRATION OF SCIENTIFIC RESEARCH AND DEVELOPMENT (No credit) See page 76.
- 31.052 INSTITUTE ON ATTITUDE SURVEYS AND THE FEDERAL AGENCIES (No credit)
See page 76.
- 31.550 INSTITUTE IN THE PRESERVATION AND ADMINISTRATION OF ARCHIVES (3)
See page 76.

INTERN PROGRAMS

- 54.591 PROBLEMS IN PUBLIC ADMINISTRATION (3) Seminar for the Civil Service Commission Intern Program. Lectures and discussions by authorities and government officials; current issues in public policy and problems in public administration. Advanced reading and written reports. FALL. SPRING.
- 54.592 PUBLIC ADMINISTRATION INTERN COLLOQUIUM (3) Seminar for the Department of the Navy Interns. Lectures and discussions. Administrative case studies and advanced reading and written reports. FALL. SPRING.
- 54.593 SEMINAR: PUBLIC ADMINISTRATION INTERNS (6) Problem seminar for Public Administration Interns oriented to work assignments and related areas of administration. FALL. SPRING.
- 54.691 IN-SERVICE TRAINING PROJECTS (3) Study and research projects undertaken by a limited number of properly qualified persons as an integral part of their degree programs in fields related to their official duties in governmental or private agencies. Supervised jointly by the faculty and officers in the agencies in which the students are employed. *Prerequisite, permission of departmental chairman and dean of the graduate school.* SUMMER. FALL. SPRING.

RESEARCH AND READING

- 54.070 RESEARCH SEMINAR IN LATIN AMERICAN GOVERNMENTS (No credit) Post-doctoral seminar for persons interested in research problems in Latin American governments. Inquiry into definition of significant problems for research, methodology, and bibliography. 1954 FALL.
- 54.594 PUBLIC AFFAIRS LABORATORY (6) Field study of public affairs. Conferences with leading legislative, administrative, and other officials. Problems of policy, management, and organization. Reports on field conferences and demonstrations. SUMMER.
- 54.692 PUBLIC ADMINISTRATION: CASE STUDY RESEARCH (6) Research project in which the principles of public administration are applied to a specific organizational unit. *Prerequisite, candidacy for an advanced degree in public administration.* SUMMER. FALL. SPRING.
- 54.790 SEMINAR IN APPLIED RESEARCH METHODOLOGY (3) Advanced seminar for graduate students interested in the application of research methods to a particular problem or situation. Individual projects. SPRING.
- 54.799 THESIS SEMINAR IN POLITICAL SCIENCE AND PUBLIC ADMINISTRATION (3-6)

PSYCHOLOGY

Professors: RALPH BEDELL (on leave July 1, 1953 - August 31, 1954); JOHN E. BENTLEY; CHARLES K. TRUEBLOOD (Chairman); ELLIS WEITZMAN.

Adjunct Professors: LLOYD E. RACKLEY; KARL T. WAUGH.

Professorial Lecturers: ALBERT C. CORNSWEET; JOHN ENDACOTT; JOSEPH SAMLER.

Lecturers: KATHERINE P. BEARDSLEY; BEATRICE J. DVORAK; LEON EPSTEIN; HAROLD GOLDSTEIN; GORDON L. LIPPITT; EVA M. MAHONEY; MELVIN R. MARKS; JOHN P. MUNDY; EVAN G. PATTISHALL; EWING L. PHILLIPS; ERNEST S. PRIMOFF; BERTRAM W. STRAUS.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Bachelor of Science in Social Science, Bachelor of Arts

UNIVERSITY REQUIREMENTS—

Students majoring in psychology are advised to complete 57.200 General Psychology (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

BACHELOR OF SCIENCE IN SOCIAL SCIENCE

Major courses	30 hours
57.300 and 57.301 Experimental Psychology ¹ and ² (6), and 24 additional hours of courses at the 300-500-level in at least 3 of the following fields: general psychology, social psychology, psychology of personality, personnel psychology, psychological measurements, educational psychology, and counseling.	
Related courses	18 hours
Advanced work in the social sciences, with not more than 9 hours in one.	
Tool course	3 hours
69.200 Fundamentals of Statistics (3).	

BACHELOR OF ARTS

Major courses	30 hours
Same as required for the degree of Bachelor of Science in Social Science.	
Related courses	12 hours
Advanced work in the social sciences.	
Tool course	3 hours
69.200 Fundamentals of Statistics (3).	

ELECTIVES—

Bachelor of Science in Social Science.....	33-37 hours
Bachelor of Arts.....	39-43 hours

DEGREE PROGRAMS

GRADUATE DEGREES—The department offers programs leading to the degree of Master of Arts in psychology or in guidance and counseling and to the degree of Doctor of Philosophy in social psychology. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

57.200 GENERAL PSYCHOLOGY (3) Psychological nature of the individual and the influences which affect human development and human action. Prerequisite to other offerings in the department. SUMMER. FALL. SPRING.

- 57.210 (formerly 17.210) IMPROVEMENT OF READING (3) Practical approach to the improvement of reading efficiency through supervised individual and group practice during class periods. Diagnosis of individual reading habits. Laboratory fee, all students, \$8. FALL.
- 57.300 EXPERIMENTAL PSYCHOLOGY¹: RECEPTIVE PROCESSES (3) Experimental study of the psychological bases of behavior and the receptive processes: vision, audition, and other senses. Required of students majoring in psychology. *Recommended prerequisite*, 69.200 *Fundamentals of Statistics*. FALL.
- 57.301 EXPERIMENTAL PSYCHOLOGY²: BEHAVIOR PROCESSES (3) Experimental study of learning, perception, memory, emotion, and thinking. Required of students majoring in psychology. *Prerequisite*, 57.300. SPRING.
- 57.302 APPLIED PSYCHOLOGY (3) Applications of psychology in the fields of human relations, mental health, increasing human efficiency, and the selecting and training of personnel. 1953 FALL. 1954 SPRING. 1954 SUMMER.
- 57.305 GROUP DYNAMICS AND ADMINISTRATIVE PRINCIPLES (3) Survey of important developments in group dynamics. Analysis of face-to-face group functioning. Class discussion, small group projects, and individual research. FALL.
- 57.400 PSYCHOLOGY OF THE CHILD (3) Growth through infancy and childhood, with emphasis on emotional behavior, intelligence, learning, and social development. Not offered 1953-1954.
- 57.401 PSYCHOLOGY OF THE ADOLESCENT (3) Physical, mental, and social growth of the adolescent, with special consideration of the psychological bases of adolescent behavior. 1954 SUMMER.
- 57.404 INTRODUCTION TO SOCIAL PSYCHOLOGY (3) Influence of group structure and dynamics upon the psychological development of the individual. The social environment in relation to individual adjustment. FALL. SPRING.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

- 57.500 ADVANCED GENERAL PSYCHOLOGY (3) Critical overview of the major problems, methods, and research findings in psychology. A basic course for all students interested in further work in psychology. *Prerequisite*, one year of work in psychology or permission of the instructor. 1953 FALL.
- 57.501 ADVANCED EXPERIMENTAL PSYCHOLOGY (3) Critical survey of experimental investigations in the major areas of psychology. One or more experiments designed and conducted by each member of the class. *Prerequisite*, 57.301 or permission of the instructor. 1954 SPRING.
- 57.502 PHYSIOLOGICAL PSYCHOLOGY (3) The action systems of the human body. Psychology of vision, audition, and other senses. Space perception. Reflexes. The physiological correlates of emotion and motivation. *Prerequisite*, 57.301 or permission of the instructor. 1954 SPRING.
- 57.503 THEORETICAL SYSTEMS OF PSYCHOLOGY (3) The conceptual systems of psychology, involving consciousness, function, behavior, purpose, dynamism, and gestalt, as they appear in the history of psychological thought. *Prerequisite*, one year of work in psychology or permission of the instructor. 1954 FALL.
- 57.504 PSYCHOLOGICAL AND EDUCATIONAL MEASUREMENTS¹: GROUP (3) Construction, administration, and interpretation of group tests of intelligence, aptitude, achievement, interest, and personality. *Prerequisite*, one year of work in psychology or education. 1953 FALL. 1954 SUMMER. 1955 SPRING.
- 57.505 PSYCHOLOGICAL AND EDUCATIONAL MEASUREMENTS²: INDIVIDUAL (3) Extensive laboratory practice in the administration, scoring, and interpretation of representative tests of intelligence and personality that require individual administration. *Prerequisite*, permission of the instructor. 1954 SPRING.
- 57.506 ABNORMAL PSYCHOLOGY (3) Deviations from normal behavior. Neurotic, psychotic, and psychopathic personality. Disorders of sensation, perception, memory, and motor control. Functional mental disorders. Principles of psychotherapy. 1954 SUMMER.
- 57.507 MENTAL HYGIENE (3) Relationships between self-acceptance, self-respect, and emotional health. Adjustment processes in everyday living, with emphasis on bringing unconscious motivation into awareness. 1953 FALL. 1954 SUMMER.
- 57.508 PSYCHOLOGY OF THE ADULT (3) Critical survey of principles and research studies relating to the behavior of mature individuals. Psychological needs, group behavior, and occupational fitness of adults. 1954 SUMMER.
- 57.509 PSYCHOLOGY OF ADVERTISING (3) Psychological principles underlying successful advertising and selling. Consumer motivation and buying habits. Methods and results of experimental investigations in the advertising field. *Prerequisites*, 57.200 and 11.430 *Principles of Advertising* or permission of the instructor. 1955 SPRING.
- 57.510 PROJECTIVE TECHNIQUES IN PSYCHOLOGY (3) Examination of the theoretical bases of the projective techniques. Introduction to the principal projective methods used in the study of personality. *Prerequisite*, 57.523 and 57.600. 1954 SPRING.
- 57.515 DYNAMICS OF GROUP BEHAVIOR: FUNDAMENTALS (3) Interpersonal relations in group situations. Casual factors in group functioning. Functional roles of individuals in groups. Sociometric factors in group structure. FALL.

- 57.516 MARRIAGE RELATIONS (3) Identification of the factors of harmonious and stable marriage. Relation between childhood training and adult adjustment in marriage. Education for marriage. *Prerequisite, permission of the instructor.* FALL.
- 57.520 BEHAVIOR PROBLEMS IN CHILDHOOD (3) Psychological bases for normal and deviate behavior in children. Childhood problems from the standpoint of the psychologist. FALL.
- 57.521 BEHAVIOR PROBLEMS IN ADOLESCENCE (3) Psychological bases for normal and deviate behavior in adolescence. Adolescent problems from the standpoint of the psychologist. SPRING.
- 57.523 *PSYCHOLOGY OF PERSONALITY* (3) Development of wholesome personality. Individual traits, individual differences, and modification of behavior patterns in personality; critical evaluation of research. Theories of personality. SPRING.
- 57.572 (*formerly 21.570*) PRINCIPLES AND PRACTICES OF GUIDANCE (3) Principles and methods of counseling in elementary and secondary schools. Organization and utilization of information as related to the pupil. Basic course for teachers and school administrators; beginning course for counselors. FALL.
- 57.573 (*formerly 21.573*) OCCUPATIONAL INFORMATION AND THE EMPLOYMENT OUT-LOOK (3) Use of occupational information by teacher, school counselor, guidance worker, employment counselor, and mature individuals who wish to utilize information for their own guidance. *Prerequisite, 57.572 or permission of the instructor.* 1955 SPRING.
- 57.574 (*formerly 21.670*) UNDERSTANDING THE INDIVIDUAL (3) Development, organization, and analysis of data related to the individual. Critical analysis of research related to interpretation of data about the individual. *Prerequisite, one course in psychological or educational measurement.* SPRING.
- 57.600 CLINICAL PSYCHOLOGY (3) Survey of the methodologies of clinical psychology, including practical uses of psychometrics, psychotherapy, and case studies. *Prerequisite, one year of psychology or permission of the instructor.* FALL.
- 57.604 ADVANCED SOCIAL PSYCHOLOGY (3) Psychological factors in human social behavior. Social aspects of perception, motivation, thinking, language, attitudes. Public opinion, propaganda, prejudice, intergroup tensions. *Prerequisite, permission of the instructor.* SUMMER, FALL.
- 57.605 DYNAMICS OF GROUP BEHAVIOR: ADVANCED (3) Techniques of group problem-solving. Interpersonal relations in a group. Guided practice in leading, participating in, and analyzing group activity. *Prerequisite, 57.515.* SPRING.
- 57.606 PROBLEMS IN TEST CONSTRUCTION (3) Preparation, use, and interpretation of educational and psychological tests. Each student specializes in test construction problems in his particular field of application. *Prerequisite, one course in psychological or educational measurements.* 1955 SPRING.
- 57.608 PSYCHOLOGICAL PROCESSES IN INTERNATIONAL RELATIONS (3) Psychological principles in the development and modification of national ideologies, tensions, stereotypes. Psychological factors in war, peace, and international negotiations. Problems of foreign service officers. 1954 SPRING.
- 57.691 IN-SERVICE TRAINING PROJECT IN PSYCHOLOGY (3)
- 57.770 (*formerly 21.770*) TECHNIQUES OF COUNSELING SCHOOL PUPILS (3) Methods of counseling pupils on problems of personality development, school progress, educational and occupational choice. *Prerequisite, 57.574 or permission of the instructor.* 1955 SPRING.
- 57.771 (*formerly 21.770*) SEMINAR IN EMPLOYMENT COUNSELING (3) Critical analysis of problems of employment counselors. Special reference to employment services of publicly supported employment agencies, schools, and guidance centers. 1954 SPRING.

- 57.772 (formerly 21.771) PRACTICUM IN SCHOOL COUNSELING (6) Practical experience under planned supervision in counseling pupils. Time schedule adjusted to schools in which student is doing counseling. *Prerequisite, permission of the instructor.* Not offered 1953-1954.
- 57.773 (formerly 21.772) PRACTICUM IN OCCUPATIONAL RESEARCH FOR TEACHERS AND COUNSELORS (6) Student conducts occupational research project on a full or parttime basis under supervision of instructor and prepares report. Not offered 1953-1954.
- 57.790 PRACTICUM IN TEST CONSTRUCTION (6) Practical problems in test construction. Each intern files complete report of his activities and findings. Internship in process from December 1 through following June 30. *Prerequisite, permission of departmental chairman.* Offered to meet needs of individual students.
- 57.791 RESEARCH METHODS AND PROFESSIONAL PROBLEMS IN PSYCHOLOGY (3) Principles, design, documentation, and reporting of research. Problems and professional ethics of psychologists in research and practice. *Prerequisite, admission to candidacy for a graduate degree in psychology.* FALL.
- 57.798 SEMINAR IN PSYCHOLOGY (3) Directed research, reports and discussion on selected problems in various fields of psychology. Not offered 1953-1954.
- 57.799 THESIS SEMINAR IN PSYCHOLOGY (3-6)

PUBLIC RELATIONS

See Communication, page 53.

RADIO AND TELEVISION

See Communication, page 53.

RELIGION

See Philosophy and Religion, page 94.

SECRETARIAL STUDIES

Assistant Professor: ELOISE N. MAGAW.

DEGREE PROGRAMS

Undergraduate Courses

UNDERGRADUATE DEGREES—Courses in shorthand or typing may be selected by students preparing themselves for secretarial positions or by others who have a need for these skills. A program leading to the degree of Associate in Business Administration with major in secretarial studies is offered by the Department of Business Administration. For information concerning requirements see page 45.

- 63.100 BEGINNING TYPING (2) Development of skill in operation and use of the typewriter to produce typescript of accepted standards. SUMMER. FALL. SPRING.
- 63.200 ADVANCED TYPING (2) Professional typist development through practical experience in executing skill-building assignments. *Prerequisite, 63.100 or the equivalent.* SUMMER. FALL. SPRING.
- 63.102 BEGINNING SHORTHAND (2) Complete theory of Gregg shorthand. Practice in taking new dictation. Training in transcribing notes. SUMMER. FALL. SPRING.
- 63.202 ADVANCED DICTATION (3) Development of skill in taking new dictation of all kinds at 60-140 words a minute. Open to writers of all shorthand systems. *Prerequisite, 63.102 or equivalent.* SUMMER. FALL. SPRING.
- 63.203 TRANSCRIPTION (1) Development of skill in promptly producing neat, accurate transcripts through practice in transcribing. Open to writers of all shorthand systems, 3 class periods weekly. *Prerequisite, 63.100, 63.102 or equivalent.* SUMMER. FALL. SPRING.
- 63.205 SECRETARIAL PRACTICE (2) Study of secretarial duties involved in all phases of communication, legal and financial matters, preparation of reports, use of filing systems, and office management. *Prerequisite, 63.100 or equivalent.* SUMMER. FALL. SPRING.

SOCIOLOGY AND ANTHROPOLOGY

Professors: ERNST CORRELL; FRANK LORIMER; AUSTIN VAN DER SLICE (Chairman).

Adjunct Professors: EWAN CLAGUE; COURTLANDT C. VAN VECHTEN; OSCAR WEIGERT.

Assistant Professors: ROBERT T. BOWER; JAMES FOX; HARVEY C. MOORE.

Professorial Lecturers: HARRY ALPERT; JOHN JAY CORSON.

Lecturers: STANLEY K. BIGMAN; CONSTANCE M. GREEN; MYRON F. LEWIS; HELEN E. MARTZ; BARKEV SANDERS; CAROLINE F. WARE; IVOR WAYNE.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Associate in Arts, Bachelor of Science in Social Science, Bachelor of Arts.

UNIVERSITY REQUIREMENTS.....38-42 hours

Students majoring in sociology are advised to complete 57.200 General Psychology (3), 65.200 Introduction to Sociology (3), and 65.201 Introduction to Anthropology (3) as a part of their University requirements.

DEPARTMENTAL REQUIREMENTS—

ASSOCIATE IN ARTS

Major courses 12 hours

BACHELOR OF SCIENCE IN SOCIAL SCIENCE

Major courses 24 hours

65.310 Social Research (3), 65.410 Sociological Theory (3), and 18 additional hours from the following areas with at least 12 hours in one of them and 3 hours each in three others: social organization, anthropology, population and ecology, and public welfare.

Related courses 27 hours

19.201 Structure of the American Economy (3), 33.200 Introduction to World Politics (3), 53.200 American Government: National (3), and 18 additional hours in advanced courses in at least 4 of the social sciences.

Tool course 3 hours

69.200 Fundamentals of Statistics (3).

BACHELOR OF ARTS

Major courses 24 hours

Same as for the degree of Bachelor of Science in Social Science.

Related courses 12 hours

ELECTIVES—

Associate in Arts 10-16 hours

Bachelor of Science in Social Science 33-37 hours

Bachelor of Arts 48-52 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in Sociology. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

65.200 INTRODUCTION TO SOCIOLOGY (3) Fundamental characteristics of social relationships. Culture, personality, population and ecology, social institutions and processes, and cultural change. SUMMER. FALL. SPRING.

65.201 INTRODUCTION TO ANTHROPOLOGY (3) Introduction to the comparative study of cultural content, form, and process, and of social structure. Contributions of ethnology to the understanding of modern life. FALL. SPRING.

- 65.310 SOCIAL RESEARCH (3) Introduction to social research: design of the experiment, sources of data, preparation of reports. *Prerequisite*, 65.200. 1954 SPRING AND ALTERNATE YEARS.
- 65.330 HUMAN ORIGINS (3) (*formerly Archeology and Physical Anthropology*) Man's physical nature: origins, expression in race, interrelationships with socio-cultural factors. Principles of archeological research. Early culture and its contributions to contemporary practices. *Prerequisite*, 65.201. 1954 SPRING AND ALTERNATE YEARS.
- 65.340 THE FAMILY (3) Varying forms and functions of family organization in different societies. Evolution of American family patterns. Family relations and personality formation. Contemporary social changes influencing family life. 1953 FALL AND ALTERNATE YEARS.
- 65.350 POPULATION (3) Theoretical and problem approach to study of population. Composition, distribution, trends, and their social implications. Basic techniques of measurement. SPRING.
- 65.352 HUMAN ECOLOGY (3) Relation of environment to distribution of population and to social structure and culture. 1954 FALL AND ALTERNATE YEARS.
- 65.360 CULTURAL CONFLICTS (3) Group competition and conflict. Stereotypes and patterns of dominance and accommodation. Conditions creating tension and crises. Types of cultural conflicts and methods of resolving them. *Prerequisite*, 65.200. 1954 FALL AND ALTERNATE YEARS.
- 65.361 SOCIAL DISORGANIZATION (3) Analysis of social problems created by technical and cultural change. Effect of migration on community structure. Social background of personal maladjustment. Processes of social reorganization. *Prerequisite*, 65.200. 1953 FALL AND ALTERNATE YEARS.
- 65.410 SOCIOLOGICAL THEORY (3) Introduction to background and development of systematic theory in sociology. *Prerequisite*, 65.200. 1953 FALL AND ALTERNATE YEARS.
- 65.430 PRIMITIVE RELIGIONS (3) Varieties of religious experiences and expressions, exclusive of the great world religions. Role of religion in influencing behavior and in integrating particular societies and cultures. *Prerequisite*, 65.201. 1954 SPRING AND ALTERNATE YEARS.

Graduate Courses

(500-level courses are also open to advanced undergraduate students)

SOCIOLOGICAL THEORY

- 65.510 CONCEPTS OF SOCIOLOGY (3) Systematic survey and critical analysis of sociological concepts. Emphasis on theoretical systems. *Prerequisite*, 65.200. SPRING.
- 65.511 SOCIO-ECONOMIC THEORIES AND MOVEMENTS: MODERN PERIOD (3) Principles and theories related to socio-economic movements, social reforms, and related legislative activities. Consideration of both European and American developments. 1954 SPRING AND ALTERNATE YEARS.
- 65.610 HISTORY OF SOCIOLOGICAL THEORY¹ (3) (*formerly History of Scientific Sociology*) Comparative study of major schools of sociological theory in France, Great Britain, and the U. S. *Prerequisite*, permission of the instructor. FALL.
- 65.611 HISTORY OF SOCIOLOGICAL THEORY² (3) Comparative study of major schools of sociological theory in Germany, Austria, and Italy. *Prerequisite*, permission of the instructor. SPRING.
- 65.711 SOCIOLOGICAL THEORY: SEMINAR (3) Intensive study of selected area or school of sociological thought. Emphasis on research in source materials. *Prerequisite*, permission of instructor. 1955 SPRING AND ALTERNATE YEARS.

SOCIAL RESEARCH METHODS

- 65.512 SOCIAL RESEARCH METHODS¹ (3) (*formerly Social Science Research Methods*) Research procedures in sociology with emphasis on survey design and collection of quantitative data. *Prerequisite*, 69.200. FALL.
- 65.513 SOCIAL RESEARCH METHODS² (3) Research procedure in sociology with emphasis on the analysis of quantitative data. *Prerequisite*, 65.512. SPRING.
- 65.514 COMMUNICATION RESEARCH (3) Communication of ideas in modern society. Special attention to current empirical research on mass media in relation to sociological theory. 1955 SUMMER AND ALTERNATE YEARS.

- 65.515 ATTITUDE MEASUREMENT AND RESEARCH (3) Examination of various means of measuring attitudes and analyzing survey data. Actual empirical field work in opinion and attitude research studied. Emphasis on research methods. *Prerequisite*, 65.512. 1955 SPRING AND ALTERNATE YEARS.
- 65.516 RESEARCH METHODS IN MEDICAL CARE (3) Application of research methods to problems of medical care in terms of personnel, need of facilities, costs, and economic losses incident to ill health. *Prerequisite*, 65.562. 1955 SPRING AND ALTERNATE YEARS.
- 65.691 IN-SERVICE TRAINING PROJECT (3-6) Research project for limited number of qualified students working in government or private organizations in areas related to their degree program. Project under supervision of faculty and organization concerned. SUMMER. FALL. SPRING.
- 65.710 SOCIOLOGICAL METHOD: SEMINAR (3) Translation of theories into research operations. Students share in research projects conducted at the Bureau of Social Science Research; supervised research experience for graduate students. *Prerequisite*, permission of the instructor. 1955 SUMMER AND ALTERNATE YEARS.
- 65.799 THESIS SEMINAR IN SOCIOLOGY (3-6)

ANTHROPOLOGY

- 65.530 THEORY AND METHODS OF CULTURAL ANTHROPOLOGY (3) (*formerly Cultural Anthropology*) Anthropological theories of culture and society: their history, present status, and influences. Methods pertinent to the theories. *Prerequisite*, 65.201. 1955 SUMMER AND ALTERNATE YEARS.
- 65.531 COMPARATIVE SOCIAL ORGANIZATION (3) An anthropological approach to the comparative study of selected societies and varieties of social structure. *Prerequisite*, 65.201. 1953 FALL AND ALTERNATE YEARS.
- 65.532 PROCESSES OF CULTURE (3) Dynamics of culture. Growth, development, and stability in culture content, form, and organization. Acculturation and nativistic movements. Assimilation and integration of ethnic groups. *Prerequisite*, 65.201. 1954 FALL AND ALTERNATE YEARS.
- 65.534 CULTURES OF SOUTHEAST ASIA AND INDONEASIA (3) Anthropological survey of selected cultures in the geographical areas of mainland Southeast Asia, the Malay Peninsula, and the islands from Sumatra to the Philippines. FALL.
- 65.535 CULTURAL INFLUENCES UPON THE INDIVIDUAL (3) Examination of anthropological studies concerning personality. Influences of culture upon the thoughts and actions of the individual and the resulting cultural patterns and configurations. 1955 SPRING AND ALTERNATE YEARS.
- 65.536 ETHNOLOGY OF NEGRO AFRICA (3) Survey of the peoples and cultures of negro Africa, with emphasis on native political and social organization. Backgrounds of African native practices and beliefs. SPRING.
- 65.538 APPLIED ANTHROPOLOGY (3) Applications of concepts and approaches in anthropology to selected problems in government administration, industry, medicine and public health, and technical assistance programs. *Prerequisite*, 65.201. 1954 SUMMER AND ALTERNATE YEARS.
- 65.539 CULTURE AREA ANALYSIS (3) A selected culture area will be analyzed in terms of process, function, structure and development. *Prerequisite*, *Introduction to Anthropology* 65.201. FALL. SPRING.

SOCIAL ORGANIZATION

- 65.540 SOCIAL ORGANIZATION (3) Basic social structure of modern society. Emphasis on American social organization. Integration of society; division of labor; consensus; stratification; institutional structure; role of social values. *Prerequisite*, 65.200. 1954 FALL AND ALTERNATE YEARS.
- 65.541 SOCIAL HISTORY OF PROTESTANTISM (3) Social teachings of Reformation churches, their Catholic background and changing philosophies. Evangelical and non-conformist movements. Institutional forms of Protestant social idealism in Europe and America. 1955 SPRING AND ALTERNATE YEARS.
- 65.542 SOCIOLOGY OF POLITICAL ACTION (3) Critical evaluation of recent theories of political sociology. Motivation in political behavior. Application of concepts of group participation from functional sociology and psychology. *Prerequisite*, 65.200 and 53.200, *American Government: National*. 1954 FALL AND ALTERNATE YEARS.
- 65.543 DEVELOPMENT OF AMERICAN CULTURE (3) American history from the viewpoint of the cultural anthropologist. Development of dominant American culture patterns, their relation to those of non-dominant economic, ethnic, and religious groups. *Prerequisite*, 65.200. 1955 FALL AND ALTERNATE YEARS.
- 65.544 AMERICAN ETHNIC GROUPS AND CLASSES (3) Nature and interrelations of American ethnic and economic groups. "Minority" group problems; their reflection in institutions, attitudes, and patterns of behavior. Status: persistence and change. *Prerequisite*, 65.200. 1954 FALL AND ALTERNATE YEARS.
- 65.545 AMERICAN COMMUNITIES (3) Analysis of economic foundation, social and political structure, and impact on individual personality of different types of American communities. Problems and processes of community organization. *Prerequisite*, 65.200. SPRING.
- 65.546 COLLECTIVE BEHAVIOR (3) Analysis of crowd, mass, and public behavior. Relationship to social movements of modern times. Role of leadership in various types of collective behavior. Factors and processes in emergence of social order. *Prerequisite*, 65.200. FALL.

POPULATION AND ECOLOGY

- 65.550 THE CITY (3) Patterns and processes of urban society. The ecological and social organization of the modern city. Urban problems and trends. Emphasis on methods of research in the field. *Prerequisite*, 65.200. 1955 SUMMER AND ALTERNATE YEARS.
- 65.551 ANALYSIS OF POPULATION TRENDS (3) Growth and distribution of world population. Measurement and interpretation of mortality and fertility: intrinsic reproduction. Population estimates; age structure; labor force. International and internal migration. *Prerequisite*, permission of the instructor. FALL.
- 65.552 POPULATION PROBLEMS AND POLICIES (3) Economic effects of population changes; optimum population. Demographic aspects of international problems. Development of national population policies. Implications of population analysis: education, social security, housing. *Prerequisite*, permission of the instructor. SPRING.
- 65.554 MORBIDITY AND MORTALITY ANALYSIS (3) Sources of morbidity data, measurement of morbidity, morbidity tables, actuarial techniques in follow-up studies; life tables functions; biological aspects of life tables. *Prerequisite*, 69.200. 1955 SPRING AND ALTERNATE YEARS.

PUBLIC WELFARE

- 65.561 PUBLIC WELFARE: PRINCIPLES AND PROBLEMS (3) Principles underlying public welfare programs and major problems in the field. Organizational structure and methods of operation of federal, state, and local agencies administering programs. *Prerequisite*, permission of departmental chairman. 1954 SPRING AND ALTERNATE YEARS.
- 65.562 SOCIAL AND ECONOMIC ASPECTS OF HEALTH (3) Health problems in terms of expenditures, personnel, facilities, and organization of adequate health service; public health practices; analysis of legislative proposals in the health field. *Prerequisite*, permission of departmental chairman. 1954 SPRING AND ALTERNATE YEARS.
- 65.563 CAUSES OF CRIME (3) Nature and causal factors in delinquent behavior. Natural history of delinquent careers. Programs and policies for controlling problems of delinquency and crime in urban areas. *Prerequisite*, 65.200. 1955 FALL AND ALTERNATE YEARS.
- 65.564 TREATMENT OF THE OFFENDER (3) Practices, policies, and programs for treatment of convicted offender: *alternatives to imprisonment*: probation, suspended sentence; *imprisonment*: jail, reformatory, penitentiary; *post-imprisonment*: parole, police surveillance, rehabilitative programs. *Prerequisite*, 65.563. 1954 SPRING AND ALTERNATE YEARS.
- 65.565 SOCIAL SECURITY (3) Significance of security to individual in industrial-urban civilization. Review of causes of insecurity and ways adopted in the U. S. and other countries to provide security. *Prerequisite*, permission of departmental chairman. 1955 FALL AND ALTERNATE YEARS.

SPANISH

See Languages, page 80.

SPEECH AND THEATER

See English, page 65.

STATISTICS

Professor: JOHN H. SMITH (Chairman).

Adjunct Professors: ERNEST E. BLANCHE; SCOTT DAYTON; JEROME CORNFELD.

Associate Professor: DAVID ROSENBLATT.

Professorial Lecturers: HENRY G. PUPPA; ERNEST RUBIN; SEYMOUR L. WOLFBEIN.

Lecturers: SIDNEY BINDER; CARL L. BYHAM; CHURCHILL EISENHART; WILMOTH D. EVANS; ARDIE LUBIN; CLAIR T. MACHLIN; WALT R. SIMMONS; MARY E. SPEAR; WILLIAM J. YOUTDEN.

DEGREE PROGRAMS

UNDERGRADUATE DEGREES—Bachelor of Science in Social Science.

UNIVERSITY REQUIREMENTS 38-42 hours

DEPARTMENTAL REQUIREMENTS—

BACHELOR OF SCIENCE IN SOCIAL SCIENCE

Major courses 36 hours

69.200 Fundamentals of Statistics (3), 69.300 Business Statistics or 69.301 Intermediate Statistics (3), 69.500 Mathematical Statistics (3), 69.502 Correlation Analysis (3), 69.504 Analysis of Variance (3), 69.510 Theory of Sampling (3), and 18 additional hours in applied statistics, statistical theory, probability or statistical research methods.

Related courses 21 hours

6 hours in introductory courses in the social sciences, 3 hours in courses in the humanities, 12 hours in advanced courses in the social sciences.

Tool courses 12 hours

41.110 College Algebra (3), 41.140 Plane Analytic Geometry (3), 41.220 and 41.221 Differential and Integral Calculus¹ and ² (6).

ELECTIVES—

Bachelor of Science in Social Science 18-21 hours

GRADUATE DEGREES—The department offers programs leading to the degrees of Master of Arts and Doctor of Philosophy in statistics. For information concerning requirements apply to the Dean of the Graduate School.

Undergraduate Courses

69.200 FUNDAMENTALS OF STATISTICS (3) Collection of data; classification; tables; graphs; averages; dispersion; random sampling; standard-error analysis; linear regression and correlation between two variables. Economic applications emphasized in most sections. *Prerequisite, secondary school algebra.* SUMMER. FALL. SPRING.

69.300 BUSINESS STATISTICS (3) Price indexes, analysis of time series, indexes of physical volume, elements of multiple correlation and statistical inference. *Prerequisite, 69.200.* Not open to students who have completed 69.301. SUMMER. FALL. SPRING.

69.301 INTERMEDIATE STATISTICS (3) Application of statistics in social sciences emphasizing sampling design correlation, contingency tables, and tests of significance. *Prerequisite, 69.200.* Not open to students who have completed 69.300. SPRING.

69.360 GRAPHIC PRESENTATION OF STATISTICAL DATA¹ (3) Functions of statistical charts for various purposes. Use of color, commercial materials, and lettering sets. Charts for lectures, exhibits, displays, and publications. FALL. 1955 SPRING.

69.361 GRAPHIC PRESENTATION OF STATISTICAL DATA²: ADVANCED (3) Graphic presentation for company reports, exhibits, hearings, charts for newspaper and magazine articles, pamphlets, advertising, television. *Prerequisite, 69.360, work in drafting and commercial art, or permission of departmental chairman.* 1954 SPRING.

Statistics
Graduate Courses

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(500-level courses are also open to advanced undergraduate students)

- 69.500 MATHEMATICAL STATISTICS (3) Frequency and sampling distributions; simple sampling; binominal, Poisson, and normal probability functions; cumulants; bivariate distributions; tests of significance. *Prerequisite, a year of calculus and some work in elementary statistics.* SPRING.
- 69.502 CORRELATION ANALYSIS (3) Simple, partial, and multiple correlation; confidence intervals for simple and partial regression coefficients; estimates with minimum variance; tests of significance; graphic methods. *Prerequisite, some work in calculus and elementary statistics.* FALL.
- 69.504 ANALYSIS OF VARIANCE (3) Statistical analysis of randomized block, Latin square, and factorial experiments; degrees of freedom, tests of significance; incomplete blocks; unequal frequencies; confounding; analysis of covariance. *Prerequisite, a year of calculus and a year of statistics.* SPRING.
- 69.510 THEORY OF SAMPLING¹ (3) Maximizing efficiency of sample surveys; stratification; types of sampling units; sub-sampling; double sampling; biased methods of selection and forms of estimate; precision and bias of results. *Prerequisite, some work in calculus and elementary sampling.* FALL.
- 69.511 THEORY OF SAMPLING²: ADVANCED (3) Advanced problems of sampling design. Cluster sampling, sub-sampling, types of costs; maximizing information per dollar; probability proportional to size, systematic sampling, restricted sample designs. *Prerequisite, 69.510.* SPRING.
- 69.520 DESIGN OF SCHEDULES AND SAMPLING PRACTICE (3) Planning effective questionnaires for use by government, educational, and private agencies. Application to a sample survey planned and conducted by the class. FALL.
- 69.530 MACHINE METHODS IN LARGE SCALE SURVEYS¹ (3) Efficient planning of large scale surveys, editing, checking, coding, tabulating, and analysis by means of punched cards and mechanical tabulating equipment. *Prerequisite, a course in statistics or adequate experience.* FALL. 1954 SPRING.
- 69.531 MACHINE METHODS IN LARGE SCALE SURVEYS²: ADVANCED (3) Practical applications of the punched card method in large scale surveys. Problems in machine utilization, plug-board wiring, and development of mechanical tabulating procedures. *Prerequisite, 69.530.* 1955 SPRING.
- 69.540 LABOR STATISTICS¹: LABOR FORCE (3) Critical analysis of information on occupational descriptions and classifications, industrial classifications, industrial censuses, employment, payrolls, absenteeism, and unemployment. FALL.
- 69.541 LABOR STATISTICS²: WAGES AND PRODUCTIVITY (3) Wage rates, union scales, vacations, retirements. Prices and real wages. Sources, methods of collection, analysis, and presentation. Application to labor problems. SPRING.
- 69.544 BIOMETRICS¹ (3) Bioassay, diagnostic tests, etc. Problem formulation, experimental design, and methods of analysis. *Prerequisite, 69.504.* FALL.
- 69.545 BIOMETRICS² (3) Continuation of 69.544, which is prerequisite to this course. SPRING.
- 69.550 FACTOR ANALYSIS¹ (3) Describing measurements on a large number of variables in terms of a small number of factors; psychological applications. *Prerequisite, work in psychological tests, mathematics, and statistics at least through multiple correlation.* FALL.
- 69.551 FACTOR ANALYSIS²: ADVANCED (3) Review of direct methods for reduction of correlation matrix; orthogonal and oblique transformations and factor solutions; estimation of factors; comparisons of factor solutions. *Prerequisite, 69.550.* SPRING.
- 69.570 QUALITY CONTROL IN MANAGEMENT (3) Application of elementary statistical methods to control of quality of product or work output. *Prerequisite, 69.200.* 1954 SPRING.
- 69.571 SEQUENTIAL ANALYSIS (3) Selection of observations singly or in groups until a hypothesis may be accepted or rejected with a specified risk. Emphasis on inspection problems. *Prerequisite, a course in statistics with a calculus prerequisite.* 1954 SUMMER.
- 69.572 DESIGN AND INTERPRETATION OF EXPERIMENTS (3) Characteristics of a good experiment; experimental designs and methods of analysis; maximizing precision of experiments. *Prerequisite, 69.200 and advanced work in one of the sciences.* FALL.
- 69.573 STATISTICAL THEORY OF MEASUREMENTS (3) Measurements, scales, direct versus indirect measurement. Limiting mean, true values, errors, mathematical and statistical convergence. Statistical techniques for detection and diagnosis of errors. Precision versus accuracy. *Prerequisite, advanced work in statistical theory and in one of the sciences.* 1955 SPRING.
- 69.575 ACCEPTANCE SAMPLING (2) Review of catalogues of existing sampling plans. Principles of lot by lot sampling inspection by attributes and variables. Recent developments in attributes and variables sampling inspection. 1955 SPRING.

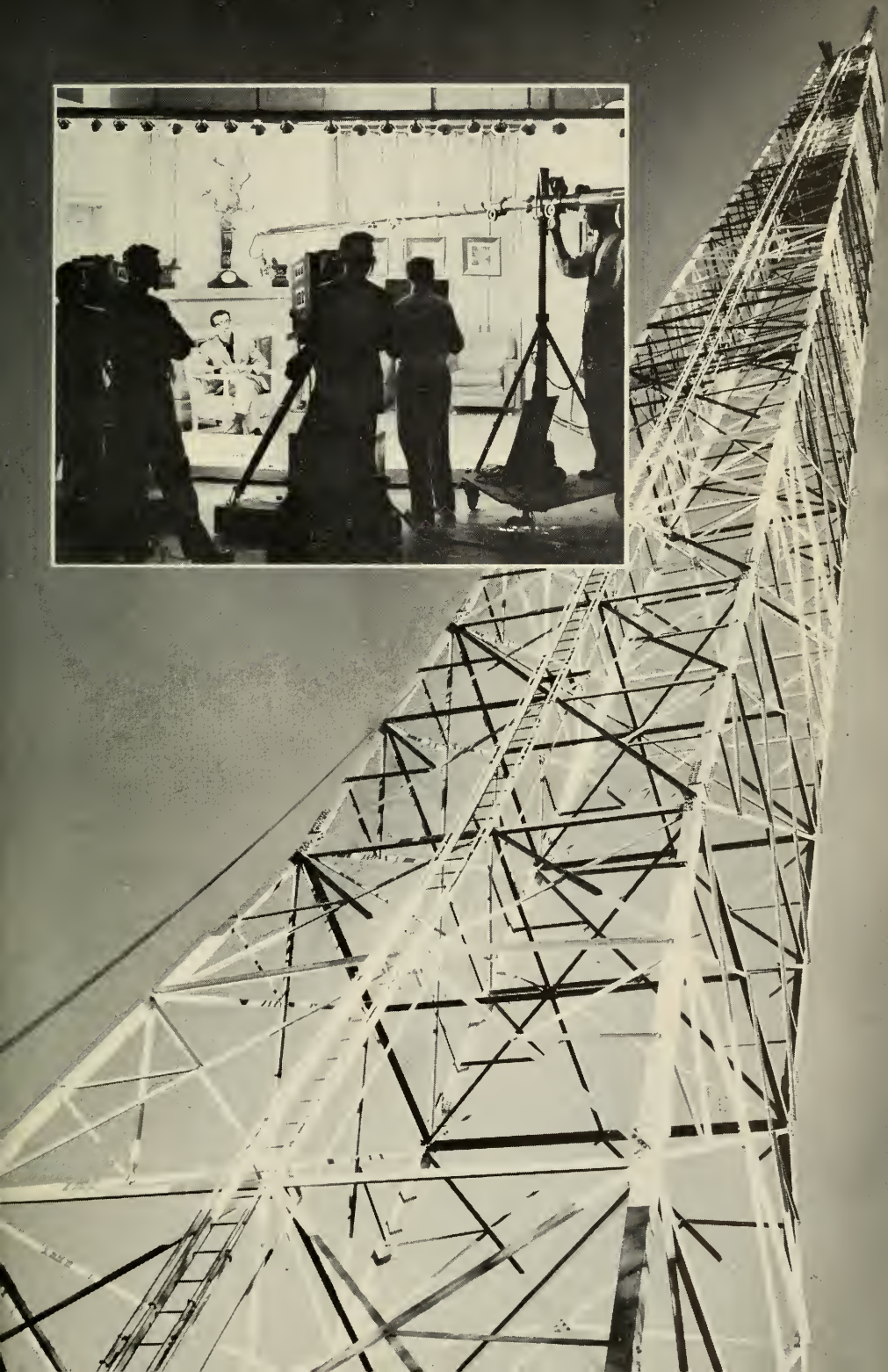
- 69.600 ESTIMATION AND TESTING HYPOTHESES (3) Least squares, maximum likelihood, confidence intervals. Properties of statistics and criteria of estimation; alternative hypotheses and errors of first and second kinds; desirable properties of test criteria. *Prerequisite*, 69.502 and 69.504. FALL.
- 69.604 STATISTICAL DECISION FUNCTIONS (3) General problem of choosing a course of action without complete information; common problems of inference as special cases; Bayes solutions; randomized decisions; convex sets; minimax principle. *Prerequisite*, at least 6 hours in statistics with a calculus prerequisite. 1954 SPRING.
- 69.671 MATHEMATICAL PRINCIPLES OF EXPERIMENT DESIGN (3) Least squares estimation of effects for various experimental designs; tests of significance; construction of designs by means of finite geometries and difference sets. *Prerequisite*, at least 6 hours in statistics with a calculus prerequisite. 1955 SPRING.
- 69.680 ECONOMETRICS: STATISTICAL ANALYSIS OF TIME SERIES (3) Estimation of parameters in dynamic models; alternative methods of studying related economic time series with relative advantages of each. *Prerequisite*, 69.502 and advanced work in economics. FALL.
- 69.790 SEMINAR IN STATISTICAL THEORY (3) 1955 SPRING.
- 69.799 THESIS SEMINAR IN STATISTICS (3-6)

TELEVISION AND RADIO

See Communication, page 53.

TRANSPORTATION

See Economics, page 57.





Applications are accepted for admission during any session (Summer, Fall, Spring). Inquiries concerning admission to the University should be addressed to the Office of the Assistant to the President, Massachusetts and Nebraska Avenues, N.W., or 1905 F Street, N.W. Inquiries concerning admission to the Washington College of Law may be addressed to the Dean of the College, 2000 G Street, N.W.

ADMISSION REQUIREMENTS

Undergraduate Students

Applicants for admission to the Undergraduate College must submit official transcripts of all previous academic work. Applicants for admission as full-time students must also submit a health certificate on a form available from the University and a non-refundable application fee of \$5.

Freshman standing—Graduates of accredited secondary schools who have completed 15 acceptable units (at least ten of them in academic or college preparatory subjects) with at least a C average, and who rank in the upper half of their graduating class may be admitted to full freshman standing.

Advanced standing—Graduates of a college transfer program in an accredited junior college or students of other accredited colleges or universities who have maintained a satisfactory average may be admitted to full standing and receive credit for acceptable work completed with a grade of C or better. Graduates of accredited junior colleges may transfer a maximum of 63 hours of work and may ordinarily enter on the junior year of work at this University.

Conditional standing—The Committee on Admissions may in certain cases admit to conditional standing those students who do not meet all the admission requirements of the University in cases where extenuating circumstances appear to the Committee to explain any deficiency in the admission requirements.

Law Students

Applicants for admission to the Washington College of Law must submit official transcripts showing they have completed at least three-quarters of the work required for a bachelor's degree from an accredited four-year college or university and have maintained the grade average required for graduation from that institution. Students who have satisfactorily completed a portion of their law studies in another accredited law school and who are eligible for readmission to that school may be admitted to the Washington College of Law and receive advanced standing for law work previously completed provided they maintain an average of at least C during their first year at the Washington College of Law.

Graduate Students

Applicants for admission to the Graduate School must submit official transcripts showing that they have received a bachelor's degree from an accredited four-year college or university and listing the courses they have completed. Applicants for admission as fulltime students must also submit a non-refundable application fee of \$5. Admission to the Graduate School does not constitute admission to candidacy for a degree.

Full standing—Graduates of accredited four-year colleges or universities who have completed an undergraduate major of at least 24 hours with a grade of B or better in the field in which they propose to continue graduate work may be admitted to full standing.

Qualified standing—Applicants for admission whose record shows a deficiency in their undergraduate work may be admitted to qualified standing and may be required to complete additional course work to remedy the undergraduate deficiency. The status of a student admitted to qualified standing will be reviewed after the completion of at least 12 but not more than 24 hours of work in residence at this University and he will not be permitted to re-register unless this review establishes his eligibility for full standing.

Non-degree status—Graduates of accredited four-year colleges or universities who do not wish to earn credits toward an advanced degree at The American University may be permitted to enroll in the Graduate School as non-degree students on the submission of a certificate indicating they hold an acceptable bachelor's degree.

Special Students

Applicants who are over 21 years of age and who give evidence that they have the necessary background for courses in which they wish to enroll may be permitted to register as special students in the Undergraduate College or (under certain circumstances) the Washington College of Law. Special students may not register for more than 10 hours of course work a session and they may not apply credits earned toward a degree unless they establish their eligibility for admission to full standing as of the time of their first registration as a special student.

Transfer Credit Students

Candidates for undergraduate or graduate degrees at an accredited college, university, or law school, may be permitted to enroll in courses at The American University for transfer credit on the basis of a statement from the dean or registrar of their own institution certifying that they are students in good standing and that the credits earned will be acceptable for transfer to their college or university.

Auditors

Auditors may be permitted to enroll in individual courses for which they have the necessary background provided they secure the approval of the departmental chairman in charge of the courses. Auditors do not take examinations and receive no academic credit or grade. Veteran students entitled to educational benefits in accordance with public laws may not register as auditors at government expense.

Foreign Students

Foreign students who are applicants for admission must in addition to the usual admission requirements supply certified English translations of all foreign credentials submitted and a certification of their ability to use the English language with sufficient facility to pursue academic work in an English-speaking university.

The paragraphs below summarize requirements for degrees at The American University. Departmental requirements which must be met by undergraduate majors are described on pages 36-120, preceding the list of course offerings of each department which offers a major. Detailed information concerning law and graduate degree requirements may be obtained from the Dean of the Washington College of Law and the Dean of the Graduate School.

GRADUATION REQUIREMENTS

Undergraduate Degrees

The Undergraduate College offers programs leading to the associate degree upon the completion of 66 hours of course work and to the bachelor's degree upon the completion of 126 hours of course work. For all undergraduate degrees a cumulative average of at least C (including an average of at least C in major courses) is required and the last 30 hours must be completed in residence.

Associate degrees awarded are the Associate in Arts, the Associate in Business Administration, and the Associate in Public Administration. Bachelor's degrees awarded are the Bachelor of Science in Business Administration, the Bachelor of Science in Public Administration, the Bachelor of Science in Social Science, the Bachelor of Science, and the Bachelor of Arts.

Students enrolled in degree programs before the beginning of the 1953 fall session are subject to undergraduate degree regulations stated in previous catalogs. Undergraduate students enrolled for the first time in the academic year 1953-1954 will be governed by new degree requirements adopted by the faculty in 1953.

The new undergraduate curriculum requires all candidates for undergraduate degrees to complete a uniform program of University requirements, to meet the requirements established by the various departments of instruction for associate or bachelor's degree majors, and to choose electives to complete the total of 66 or 126 hours required for the degree. These requirements are outlined in the table below.

UNIVERSITY REQUIREMENTS 38-42 hours

**Basic studies* 12-15 hours

23.100 and 23.101 English Composition ¹ and ²
(6), 29.100 and 29.101 Backgrounds of American
Democracy ¹ and ² (6). 49.100-300 Required
Physical Education (3) [not required of part-
time students].

*The basic studies portion of the University requirements may be waived by examination, in which case the student may select additional elective courses.

General studies 26-27 hours

HUMANITIES—6 hours in *one* of the following fields and 3 hours in *one* other: art, literature, music, philosophy, religion.

NATURAL SCIENCES AND MATHEMATICS—8 hours in one laboratory science or 9 hours in non-laboratory science courses, including not more than 3 hours in elementary mathematics if desired.

SOCIAL SCIENCES—9 hours in introductory courses in three of the following fields: American government, anthropology, economics, international relations, psychology, sociology.

DEPARTMENTAL REQUIREMENTS

Associate degrees — at least 12 hours in the major field for the Associate in Arts and at least 24 hours in the major and related fields for the Associate in Business Administration and the Associate in Public Administration.

Bachelor's degrees

Major courses—a minimum of 24-42 hours in the major field.

Related courses—a minimum of 12-21 hours in fields related to the major.

Tool courses—up to 15 hours in accounting, languages, mathematics, statistics, or other tool subjects, as required by each department.

ELECTIVES

Associate degrees—to complete 66 hours.

Bachelor's degrees—to complete 126 hours.

Law Degrees

The Washington College of Law offers programs leading to the degree of Bachelor of Laws upon the completion of 80 hours of course work with an average of at least C. Candidates for the degree of Bachelor of Laws must complete at least the last 20 hours of law study in The American University, they must complete at least six sessions of study in law, and they must meet these requirements during a period of not less than two nor more than six calendar years.

Students enrolled in a combined degree program leading to a Bachelor of Science or Bachelor of Arts and a Bachelor of Laws degree may apply credits earned during the first year of law study toward the major or electives requirements for the Bachelor of Science or Bachelor of Arts degree.

Graduate Degrees

The Graduate School offers programs leading to the degree of Master of Business Administration, Master of Arts, and Doctor of Philosophy.

Candidates for the degree of Master of Business Administration and Master of Arts must complete at least 30 hours of graduate study (24 of which must be completed in residence), must maintain an average grade of at least B, must pass written comprehensive examinations in three fields, must prepare a thesis demonstrating competence in the analysis of research data and expository reporting, and must pass an oral examination on the thesis.

Candidates for the degree of Doctor of Philosophy must complete at least 72 hours of graduate study (30 of which must be completed in residence, and 60 of which must be in the fields of the comprehensive examinations), must maintain an average grade of better than B, must pass written comprehensive examinations in five fields of study (and attain a grade of distinction in at least one field), must demonstrate proficiency in two research tools, must prepare a thesis demonstrating distinctive competence in research and the ability to present new knowledge effectively, and must pass an oral examination on any portions of his fields of study that are related to the thesis.

The paragraphs below summarize current academic regulations governing students of The American University. Additional information for undergraduate students is contained in the instructions prepared for new students and in the Student Handbook, copies of which are available from the Office of the Assistant to the President. Regulations relating specifically to law and graduate students are contained in publications available from the Dean of the Washington College of Law and the Dean of the Graduate School. Academic regulations are subject to change at any time by action of the faculty.

ACADEMIC INFORMATION

Academic load—A fulltime student registers for 12-18 hours during the fall and spring sessions and for at least 5 hours during any summer session. A student employed more than 20 hours a week must register as a parttime student. During the fall and spring sessions a parttime student may register for no more than 10 hours of course work (if an undergraduate or law student) or for no more than 6 hours of course work (if a graduate student). During any summer session a parttime student may register for no more than 4 hours of course work.

Program of studies—Degree students must secure the approval of their advisors for course selections prior to each registration. A student may add a new course up to the end of the second week following the opening of a session and may drop a course up to the end of the fourth week. Changes in the program of studies must be approved by the student's advisor and filed with the registrar and bursar within 48 hours after they are initiated, otherwise payment must be made in full and grades will be recorded for the original program.

Grading system—Grade definitions used in the Undergraduate College and the Graduate School are as follows: A (3 points), excellent; B (2 points), good; C (1 point), fair; D (0 points), poor; F (minus point), failure; I, incomplete; W, official withdrawn; X, unofficial withdrawal. Grade definitions used in the Washington College of Law are as follows: A (3 points), exceptional performance and the demonstration of intellectual initiative; B (2 points), competent performance; C (1 point), acceptable performance; D (0 points), marginal but passing performance; F (0 points), failure. A grade of incomplete (I) will be accepted by the registrar only if accompanied by a statement from the instructor indicating what must be done by the student to complete the work of the course. Incomplete grades must be removed by April 1 (for the fall session), October 1 (for the spring session), or November 1 (for the summer session). Undergraduate students who do not remove an incomplete grade in any course will automatically receive a permanent grade of F or X for that course, at the discretion of the instructor.

Classification of undergraduate students — Freshman, 0-29 hours completed; sophomore, 30-62 hours completed; junior, 63-89 hours completed; senior, 90-126 hours completed.

Grade average for undergraduate students—An undergraduate student will be placed on probation for unsatisfactory scholarship if he fails to achieve a cumulative average of 1.00 (C) during his first 30 hours of course work. An undergraduate student will be dismissed if he fails to achieve a cumulative average of 1.00 upon the completion of 63 hours of course work, if he fails to achieve a cumulative average of 1.00 upon the completion of 93 hours of course work, or if he fails to achieve a better than D average in any session (in the case of parttime students a session will be interpreted in terms of 15 hours of consecutive course work).

An undergraduate student must maintain a C average (including an average of C in his major courses) to be eligible for graduation. Grade honors are awarded on the basis of the following averages: 3.00 average, highest distinction; 2.75-2.99 average, high distinction; 2.50-2.74 average, distinction. No grades received in another institution are used in computing the grade average.

Grade average for law students—Law students must maintain a C average or they will be dropped from the rolls of the University.

Grade average for graduate students—Candidates for the degree of Master of Business Administration or Master of Arts must maintain a B average. Candidates for the degree of Doctor of Philosophy must maintain an average of better than B. C is the lowest grade for which a graduate student may receive credit.

Absences—Final examinations will be withheld from undergraduate and all veteran students studying at government expense who have been absent from more than one quarter of the scheduled meetings of any class. Veterans studying under the provisions of public laws entitling them to educational benefits absent from any class for two consecutive weeks without the approval of the dean concerned will be dropped from the rolls of the class and reported to the Veterans Administration.

Other regulations—Each student is expected to familiarize himself with the regulations stated in this catalog and in other published literature of the University, including the revised course announcements issued prior to the opening of each session.





RESIDENCE FACILITIES

Residence Halls

Fulltime undergraduate students not residing with parents or relatives are required to live in residence halls located on the Uptown Campus. Fulltime graduate and law students may reside in University dormitory rooms or apartments if space is available.

New students upon admission should send applications for dormitory rooms to the office of the Assistant to the President, Massachusetts and Nebraska Avenues, N. W., Washington 16, D. C. Applications must be accompanied by a reservation fee of \$25 to be applied to residence fees. The reservation fee will be refunded if the application is denied or if the reservation is cancelled within 6 weeks before the opening date of the session to which it applies. The reservation fee will not be returned under any other circumstances nor will it be applied to residence fees in any other session.

A student may not continue occupancy of a dormitory room in any session in which he is not registered as a fulltime student. All students except those receiving degrees must vacate their rooms within 24 hours after their last examination preceding commencement. Graduating seniors in residence may continue to occupy their rooms until noon of the day following commencement. During the Thanksgiving, Christmas, mid-year, Easter, and other vacation periods the residence halls are officially closed. *Students may not reside on the campus during these periods without the permission of the associate dean of students and payment of a special fee of \$2 a day.*

Students in residence in dormitories or apartments must observe all University rules and regulations and will be held responsible for any damage done to rooms or apartments during their occupancy. A student who fails to comply with University regulations may be required by the associate dean of students to relinquish his room or apartment at any time without notice.

Apartments

A limited number of apartments are available for married students. Rates and other information may be obtained from the Office of the Assistant to the President, at the address given above.

University Dining Room

The University dining hall is located in Mary Graydon Hall on the campus. Fulltime undergraduate students who live in a University dormitory must purchase a meal ticket providing three meals a day for five days (Monday through Friday) or for seven days (Monday through Sunday) a week during Fall and Spring sessions.

The University can assume no responsibility for students requiring special diets which differ from the standard bill of fare.

University Health Service

The University Health Service, located in Mary Graydon Hall, is available to all fulltime undergraduate students, to all students who reside in University dormitories or apartments, and to all other students who pay an optional health fee each session. Students are entitled to consultations with the University Physician and to not more than seven days of hospitalization in the University infirmary during the academic year (Fall and Spring sessions) without charge. At the infirmary ordinary medical care and advice is rendered for most minor illnesses.

FINANCIAL INFORMATION

Tuition

UNDERGRADUATE STUDENTS

Fulltime	\$280 a session (12 - 18 hours)
Parttime and summer session students	\$15 a credit hour

LAW STUDENTS

Fulltime	\$210 a session (12 - 15 hours)
Parttime and summer session students	\$15 a credit hour

GRADUATE STUDENTS

Fulltime and Parttime	\$15 a credit hour
Graduate study fee	\$15 a session (for fulltime and parttime students who have completed course work and thesis seminar requirements)

General Fees (not refundable)

APPLICABLE TO ALL STUDENTS

Late registration	\$3
Change in registration not required by the University	\$3 each transaction
Reinstatement fee	\$5, plus payment of all obligations
Student activities fee	\$15 a session, Fall and Spring
(included in tuition of fulltime undergraduates, optional for others who wish to participate in the University's extracurricular athletic and social activities)	
Health fee	\$10 a session, Fall and Spring
(included in tuition of fulltime undergraduates, re- quired of all other students residing in University facilities)	
Official transcripts (after first)	\$1 each
Certifications without seal (after first)	.25 cents each

APPLICABLE TO UNDERGRADUATE STUDENTS ONLY

Application fee	\$5
(required with applications for admission as a fulltime student, once only)	
Admission testing	\$2 each test

APPLICABLE TO LAW STUDENTS ONLY

Application fee	\$5
(required with applications for admission, once only)	
General fee	\$5 a session
Deferred or special examinations	\$5 each examination

APPLICABLE TO GRADUATE STUDENTS ONLY

Application fee	\$5
(required with applications for admission as a fulltime student, once only)	
Comprehensive examinations (each time taken)	
For M.A. degree	\$15
For Ph.D. degree	\$25
Supervision of M.A. thesis	\$45
(if no Master's thesis seminar is completed)	
Ph.D. thesis	\$90
(unless six hours of non-credit doctoral thesis seminar is completed)	
Binding theses for deposit in library	\$12 - \$20

Graduation Fees

Undergraduate students	\$10
Law students	\$20
Graduate students	\$25

Course and Laboratory Fees

Special fees are charged for certain courses involving the use of laboratory, studio, or other equipment or facilities. The amount of the fee is indicated in the published description of the course to which it applies. Course and laboratory fees are payable on registration and are not refundable.

A student responsible for breakage or damage of equipment in any class must pay for the losses incurred before he will be admitted to the final examination.

Residence Hall Charges, Fall and Spring Sessions

	Rate per session		
	Single	Double	Triple
WOMEN			
Mary Graydon Hall	\$150	\$125	\$110
MEN			
Hamilton House	\$125	\$115	-----
Clark House	\$ 95	\$ 80	-----
McCabe House	-----	\$ 80	\$ 70
Hutchins House	\$ 95	\$ 80	-----

Dining Room Charges

3-MEAL TICKET (breakfast, lunch, dinner)	
for 5 days a week	\$175
for 7 days a week	\$230

Payment of Charges

CHARGES PAYABLE IN ADVANCE—Tuition, fees, and other obligations are payable in advance before registration is completed. No student will be permitted to register from session to session nor will he receive credit for work completed or a degree unless charges have been paid in full.

DEFERRED PAYMENT PLAN FOR FULLTIME STUDENTS—The University participates in Tuition Plan, Inc., to provide an arrangement which permits **FULLTIME STUDENTS ONLY** to pay tuition and other charges in monthly installments during Fall and Spring sessions. This plan requires the payment on registration of one-third of the total amount due the University. The remaining two-thirds is paid in three equal monthly installments. The charge established by Tuition Plan, Inc., for this service is 4% of the amount deferred for the session.

DEFERRED PAYMENT PLAN FOR PARTTIME STUDENTS—Parttime students may arrange at the time of registration for the deferred payment of tuition charges only in the Fall and Spring sessions **PROVIDED THEY ARE REGISTERED FOR MORE THAN FOUR HOURS OF COURSE WORK**. This plan requires the payment on registration of 40% of the tuition due the University and all course or other fees. 40% of the tuition must be paid by the end of the fourth week of the session. The remaining 20% of the tuition must be paid by the end of the eighth week of classes. The charge for this service is \$3, payable on registration and not refundable.

REFUNDS—A student permitted to withdraw from classes during the Fall and Spring sessions is entitled to a refund of charges for tuition in accordance with the following schedule:

Withdrawal before the opening date of the session	<i>All tuition except a registration fee of \$5</i>
Withdrawal during the 1st and 2nd weeks	<i>80% of tuition</i>
Withdrawal during the 3rd and 4th weeks	<i>60% of tuition</i>
Withdrawal during the 5th week	<i>40% of tuition</i>
Withdrawal during the 6th week	<i>20% of tuition</i>
Withdrawal after the 6th week	<i>No refund</i>

Payments for meals will also be refunded according to this schedule. Course and laboratory fees and payments for dormitory rooms are not refundable. Fulltime undergraduate students permitted to withdraw are not entitled to refund of any part of the student activities fee of \$15 a session that is included in the fulltime undergraduate tuition.

Refunds will be allowed only after the execution of withdrawal forms provided for the purpose by the registrar and the amount to be refunded will be calculated as of the date indicated by the registrar on signing.

TUITION FOR 8-WEEK HALF SESSIONS—A student enrolled in courses in business administration offered on an intensive 8-week basis enrolls for the full session and pays in accordance with the regulations given above. In special cases, a student registered for 6 or more hours of 8-week courses only may be permitted to enroll in either half session upon payment of tuition of \$140.

A student enrolled in half-session courses only who is permitted to withdraw will be entitled to a refund of tuition according to the following schedule:
Withdrawal before the opening date of the session.....*All tuition except a*

	<i>registration fee of \$5</i>
Withdrawal during the 1st week	<i>60% of tuition</i>
Withdrawal during the 2nd week	<i>20% of tuition</i>
Withdrawal after the 2nd week	<i>No refund</i>

Refunds in such cases will not include any part of the students activities fee of \$7.50 for the half session.

WORK-STUDY PROGRAM PAYMENTS—Women students enrolled in the University's Work-Study program pay an annual fee of \$875 a year. This charge includes tuition for 21 hours of academic work, a shared room in a University residence hall, and breakfasts and dinners Monday through Friday during the fall and spring sessions when classes are meeting. It does not include meals on Saturdays, Sundays, and holidays, vacation periods, or summer sessions. Bills are payable semi-monthly in advance.

SUMMER SESSION PAYMENTS—All students during summer sessions pay tuition at the rate of \$15 a credit hour and other charges as indicated in the annual summer session announcement. No deferred payment plan is available in the summer and no refunds of tuition or other charges are allowed after the opening date of any summer session.

PAYMENTS BY VETERANS—Veteran students enrolled in accordance with public laws providing educational benefits are subject to all rules and regulations of the University and they must pay any charges incurred that are not paid by the Veterans Administration.

Veteran students enrolled under Public Laws 16 and 346 may not draw books or supplies to be paid for by the Veterans Administration after the end of the ninth week in the Fall and Spring Sessions.

TUITION AND OTHER CHARGES SUBJECT TO CHANGE—All charges listed in this announcement are subject to change at the beginning of any session, by action of the Board of Trustees of the University.





SCHOLARSHIPS AND LOANS

Scholarships

Each year the University offers a limited number of scholarships to fulltime students selected on a competitive basis in accordance with conditions attached to endowment funds, gifts, and grants. In general awards are made to students whose records give promise of distinguished academic performance, citizenship, and useful living.

Applications for scholarships and fellowships are made on a form available from the Office of the Assistant to the President. They must be accompanied by:

1. An application for admission to the University;
2. A certificate of medical history and examination;
3. Transcripts of academic record as required under admission provisions;
4. A personal letter stating the applicant's academic objectives;
5. Names and addresses of three persons, not related to the applicant, who are familiar with his academic background and personal character; and
6. Other documents or evidence which support the applicant's statements.

Applications with all supporting admission documents must be presented to the University not later than February 15 preceding the fall session for which the grant is requested.

Student Loans

University loan funds assist fulltime students in meeting financial obligations and emergency needs. Loans are not made to any student during the first session of attendance. The sums which may be borrowed are defined by the terms of the trust which establishes the fund. Each borrower signs a promissory note, which must be endorsed by some financially responsible person. Applications for loans are made to the dean of the Undergraduate College, the Washington College of Law, or the Graduate School, who will forward them to the University Committee on Student Loans.

Work-Study Program

The University offers a work-study program planned to enable young women to pursue academic work and enjoy genuine campus residence life while holding positions in government, business, and nursing which provide income to pay all the university fees and living expenses. Work for the baccalaureate degree under the work-study program is completed in six instead of the conventional four-year period.

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THE AMERICAN UNIVERSITY
Washington, D. C.

Established by Act of Congress of the United States of America
February 24, 1893

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NOTE: Year in parentheses indicates date of expiration of term of each trustee.

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- A. Frank Smith, *Bishop of The Methodist Church*, 1049 Kirby Drive, Houston 19, Texas. (1959)
- Ralph D. Smith, *Pastor*, 1370 Locust Road, N. W., Washington 12, D. C.
- Guy E. Snively, *Executive Director*, Association of American Colleges, 726 Jackson Place, N. W., Washington 6, D. C. (1958)
- John Sparkman, *U. S. Senator from Alabama*, U. S. Senate, Washington 25, D. C. (1955)
- L. P. Steuart, *President*, L. P. Steuart, Inc., 1440 P Street, N. W., Washington, D. C. (1959)
- George T. Trundle, Jr., *President*, The Trundle Engineering Company, 2020 Carnegie Avenue, Cleveland 15, Ohio. (1955)
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*Deceased October, 1953.

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* Deceased October, 1953.

FACULTY

- ANTOSIEWICZ, HENRY (1952), Ph.D., Vienna. *Assistant Professor of Mathematics.*
- AULD, FLOYD W. (1952), B.S., State Teachers College, Indiana, Pennsylvania; M.A., New York University. *Assistant Professor in the American Language Center.*
- BAILY, NATHAN A. (1946), B.S.S., College of the City of New York; M.A., Ph.D., Columbia. *Professor of Economics and Business Administration.*
- BAKER, SARAH (1945), Pennsylvania Academy of Fine Arts, Academic Montparnasse, Phillips Memorial Gallery. *Assistant Professor of Art.*
- BATCHELDER, MERRITT C. (1935), B.A., Hillsdale; M.A. Columbia; Ph. D., State University of Iowa. *Professor of English.*
- BATTISON, JOHN H. *Adjunct Professor of Communication.*
- BECKHAM, RALPH S. (1953), A.B., University of South Carolina; Bachelor of Foreign Trade, American Institute for Foreign Trade. *Instructor in the American Language Center.*
- BEDELL, RALPH (1950), B.S., Central Missouri State; M.A., Ph.D., Missouri. *Professor of Psychology and Education.* (On leave July 1, 1953-August 31, 1954.)
- BENTLEY, JOHN EDWARD (1924), M.A., Clark; S.T.B., M.R.E., Boston; Th.D., McGill. *Professor of Psychology.*
- BICKFORD, HUGH C. (1947), LL.B., LL.M., National University; B.S., M.A., American. *Adjunct Professor of Taxation.*
- BIGGS, WILLIAM E. (1952), B.A., LL.B., M.A., University of Louisville. *Assistant Professor of Political Science and Public Administration.*
- BLACK, LLOYD D. (1946), B.A., Toronto; M.A., Clark; Ph.D., Michigan. *Adjunct Professor of Geography.*
- BLANCHE, ERNEST E. (1946), B.A., M.A., Bucknell; Ph.D., Illinois. *Adjunct Professor of Statistics.*
- BOCK, BENJAMIN (1948), B.S., College of the City of New York; M.A., George Washington; Ph.D., Duke. *Adjunct Professor of International Relations and Organization.*
- BOOKSTAVER, DAVID R. (1947), B.A., Cornell; LL.B., Yale. *Professor of Law.*
- BOWER, ROBERT T. (1949), B.A., Yale. *Assistant Professor of Sociology.*
- BOWLES, EDGAR (1948), Ph.D., Johns Hopkins. *Associate Professor of Geology.*
- BRADSHAW, MARY E. (1950), B.A., Pennsylvania College for Women; M.A., Ph.D., Wisconsin. *Associate Professor of International Relations and Organization.*
- BRANDENBURG, DAVID J. (1948), B.S., Bowdoin; M.A., Ph.D., Columbia. *Assistant Professor of History.*
- BROOKER, FLOYD E. (1944), B.A., Kent; B.A., Marietta; M.A., Columbia. *Adjunct Professor of Communication.*
- BUCK, SOLON J. (1937), B.A., M.A., Wisconsin; Ph.D., Harvard. *Adjunct Professor of History and Archives Administration.*
- BURR, SAMUEL ENGLE, JR. (1947), Litt. B., Rutgers; M.A., Wisconsin; M.A., Columbia; Ed.D., Cincinnati. *Professor of Education.*
- BUSH, GEORGE P. (1948), M.B.A., Harvard; M.A., Ph.D., American. *Associate Professor of Public Administration.*
- CALFEE, WILLIAM H. (1944), Beaux Arts, Paris; Cranbrook Academy; Corcoran School of Art; Phillips Gallery School; Catholic University of America. *Associate Professor of Art.* (On leave 1953-1954.)
- CAMP, PAUL, B.A., M.S., Brown. *Adjunct Professor of Public Administration.*
- CARLS, NORMAN (1948), B.Ed., Illinois State Normal; M.A., Ph.D., Clark. *Professor of Geography.* (On leave 1953-1955.)

Faculty appointments listed are for the year 1953-1954. Adjunct professors are specialists within their chosen professions who are members of the faculty but teach on a parttime basis. Professorial lecturers and lecturers are specialists in various fields of learning who teach from time to time on a parttime basis.

- CARNDUFF, ARTHUR R. (1953), B.A., Harvard; LL.B., Southeastern. *Assistant Professor of Business Law and Taxation.*
- CASSELL, STAFFORD H. (1937), B.A., American; B.S., M.S., Pennsylvania State. *Professor of Physical Education.*
- CHATFIELD, HELEN L. (1940). *Adjunct Professor of Public Administration.*
- CHRISTIE, R. B. (1953), B.A., Yale. *Assistant Professor of Advertising.*
- CLAGUE, EWAN (1945), B.A., M.A., Washington; Ph.D., Wisconsin. *Adjunct Professor of Sociology.*
- CLARK, CHARLES M. (1941), B.A., M.A., Ph.D., Cornell. *Associate Professor of English.*
- CLENDENIN, JOHN C. (1949), B.S., Mansfield; M.A., Bucknell. *Instructor in English.* (On leave 1953-1954.)
- CONNOR, FRANKLIN G. (1950), B.S., Central High College; M.S., Wharton School of Finance; Ph.D., Temple University. *Adjunct Professor of Public Administration.*
- CORNFIELD, JEROME (1949), B.A., New York. *Adjunct Professor of Statistics.*
- CORRELL, ERNST (1929), Dr. oec. publ., Munich. *Professor of Economic History.*
- CRAWFORD, H. D. (1946), B.A., Hillside. *Assistant Professor of Journalism.*
- DAVIS, ALVA L. (1952), B.A., Indiana State Teachers College; M.A., Ph.D., University of Michigan. *Associate Professor of Linguistics in the American Language Center.*
- DAVIS, HAROLD E. (1947), B.A., Hiram; M.A., Chicago; Ph.D., Western Reserve. *Professor of History.*
- DAYTON, SCOTT (1945), B.S., M.S., California. *Adjunct Professor of Statistics.*
- DERBY, DONALD (1947), B.A., Bowdoin; M.A., Ph.D., Harvard. *Professor of History.*
- DEWEY, WILLIAM E. (1947), M.A., Utah. *Adjunct Professor of Public Administration.*
- DIVINE, WILLIAM R. (1947), B.A., Pomona; M.A., Cincinnati; J.D., George Washington. *Adjunct Professor of Public Administration.*
- EKIRCH, ARTHUR A., JR. (1947), B.A., Dartmouth; M.A., Ph.D., Columbia. *Professor of History.* (On leave 1953-1954.)
- EMMONS, MARGARET L. (1952), B.A., University of Michigan. *Assistant Professor in the American Language Center.*
- FEAGANS, HAZEL H. (1929), B.A., B.E., George Washington; M.A., American. *Professor of English.*
- FIELDS, DAVID S. (1950), B.S., M.B.A., College of the City of New York. *Assistant Professor of Economics and Business Administration.*
- FOX, JAMES H. (1950), B.A., M.A., American. *Assistant Professor of Sociology.*
- FRAILEY, ROBERT H. (1949), B.S., American. *Instructor in Physical Education.*
- FRANCHINO, ROY P. (1951), B.S., Seton Hall University; LL.B., Georgetown; LL.M., Michigan. *Assistant Professor of Law.*
- FRANCK, PETER G. (1946), LL.B., Berlin; Dr. Jur., Basle. *Adjunct Professor of Economics.*
- FRANK, JOHN G. (1948), Ph.D., Michigan; Ph. D., Munich. *Professor of Languages.*
- FUCHS, HERBERT (1948), B.S., College of the City of New York; J.D., New York University. *Professor of Law.*
- GATES, ROBERT E. (1946), Detroit School of Fine Arts; Detroit School of Arts and Crafts; Art Students League of New York; Phillips Gallery; Colorado Springs Fine Arts Center. *Assistant Professor of Art.*
- GONDOS, DOROTHY (1947), B.A., Swarthmore; M.A., Ph.D., Pennsylvania. *Associate Professor of History.*
- GOODMAN, CHARLES H., B.S., Wilson Teachers College; M.S., Ph.D., Pennsylvania State. *Adjunct Professor of Public Administration.*
- GOOSTREE, ROBERT E. (1953), B.A., Southwestern at Memphis; M.A., Ph. D., State University of Iowa. *Assistant Professor of Political Science and Public Administration.*

- GOSNELL, HAROLD F. (1946), B.A., Rochester; Ph.D., Chicago. *Adjunct Professor of Political Science.*
- GRAVES, W. BROOKE (1947), B.A., Cornell; M.A., Ph.D., Pennsylvania. *Adjunct Professor of Political Science.*
- HATCHETT, STEPHEN (1947), B.A., American; M.A., Ph.D., Michigan. *Professor of Biology.*
- HATTERY, LOWELL H. (1948), B.A., Ohio; Ph.D., American. *Associate Professor of Political Science and Public Administration.*
- HAVENER, DORIS (1953), B.A., M.S., Louisiana State University. *Instructor in the American Language Center.*
- HAWKE, VIRGINIA (1950), B.S., M.A., Ohio State. *Assistant Professor of Health and Physical Education.*
- HENRICI, PETER (1952), Ph.D., Swiss Federal Institute of Technology. *Instructor in Mathematics.*
- HERSH, CHARLES (1950), B.A., M.A., Ph.D., Syracuse. *Associate Professor of Political Science and Public Administration.*
- HOMBERGER, LUDWIG M. (1939), Dr.jur. et rer. pol., Wurzburg. *Adjunct Professor of Transportation.*
- HUNTER, LOUIS C. (1937), B.A., Knox; M.A., Ph.D., Harvard. *Adjunct Professor of History.*
- HUNTER, O. BENWOOD (1952), B.S., M.D., Georgetown. *Adjunct Professor of Biology.*
- JENSEN, ANNE (1930), B.A., Des Moines; B.S. in L.S., Illinois. *Professor of Library Science.*
- JOHN, RALPH C. (1949), B.A., Berea; S.T.B., S.T.M., Boston; Ph.D., American. *Associate Professor of Philosophy and Religion.*
- JOHNSON, ALAN M., JR. (1949), B.S., Rutgers; M.S., New York; C.P.A., State of Maryland. *Assistant Professor of Accounting.*
- JORGENSEN, GLADYS V. (1944), B.A., M.A., Wisconsin; R.N., Henry Ford Hospital School of Nursing and Hygiene. *Assistant Professor of Nursing Education.*
- KECK, ANDREW S. (1946), B.A., Williams; M.A., M.F.A., Princeton. *Associate Professor of Art History. (On leave February-June 1954.)*
- KEMPTON, WILLETT M. (1948), B.A., M.A., Wisconsin. *Associate Professor of Communication.*
- KETCHUM, HARRY W. (1939), B.A., Denver; M.B.A., Harvard. *Adjunct Professor of Economics and Business Administration.*
- KOCH, ELMER C. (1940), B.S., M.S., University of Illinois; LL.B., University of Wisconsin. *Adjunct Professor of Accounting.*
- LEVIN, THEODORE H. (1947), B.A., M.A., Brooklyn. *Associate Professor of Economics and Business Administration.*
- LIPSMAN, S. W. (1952), B.S., College of the City of New York; M.A., Columbia. *Assistant Professor of English.*
- LORIMER, FRANK (1938), B.A., Yale; M.A., Chicago, B.D., Union; Ph.D., Columbia. *Professor of Sociology.*
- MACK, CLIFTON E. (1942), LL.B., Suffolk. *Adjunct Professor of Public Administration.*
- MAGAW, ELOISE NELSON (1949), B.S., Iowa; Columbia. *Assistant Professor of Secretarial Techniques.*
- MANN, FRITZ KARL (1936), Dr.Jur., Goettigen; Ph. D., Berlin. *Professor of Economics.*
- MCCAUSLAND, STANLEY (1950), B.S., Ursinus. *Instructor in Biology.*
- MCGUIRE, ESTHER L. (1952), B.A., Moorehead State Teachers College. *Assistant Professor in the American Language Center.*
- MCLAIN, JAMES L. (1934), B.A., George Washington; Certificate, Peabody. *Professor of Music.*
- MILES, ARNOLD (1953), B.A., Ohio State; M.S., Syracuse. *Adjunct Professor of Public Administration.*
- MOCK, JAMES R. (1943), B.A., DePauw; M.A., Ph.D., Wisconsin. *Adjunct Professor of Communication.*
- MOOERS, EDWIN A. (1918), LL.B., LL.D., Washington College of Law. *Professor of Law.*
- MOORE, HARVEY C. (1951), B.A., Delaware; Ph.D., New Mexico. *Assistant Professor of Anthropology.*

- MORSTEIN MARX, FRITZ (1946), Ph.D., Hamburg. *Adjunct Professor of Political Science.*
- MORTIMER, FRANK H. (1937). *Adjunct Professor of Communication.*
- MOYER, EUGENE C., (1947), B.S., Georgetown; C.P.A., State of Maryland. *Adjunct Professor of Accounting.*
- MYERS, JOHN SHERMAN (1947), B.S., LL.D., Harvard. *Professor of Law.*
- OBERHETTINGER, FRITZ (1951), Ph.D., Berlin. *Professor of Mathematics.*
- OLDS, RUBERTA M. (1930), Ph.B., Chicago; M.A., Columbia. *Associate Professor of Spanish.*
- PATTON, MARY M. (1943), B.A., Kalamazoo; M.A., Columbia. *Associate Professor of Speech.*
- PECK, GUSTAV (1936), B.A., M.A., Columbia; Ph.D., Brookings Institution. *Adjunct Professor of Economics.*
- PHILLIPS, RUTH H. (1950), B.S., Maryland State Teachers College; B.S., Johns Hopkins; M.S. in L.S., Columbia. *Assistant Professor of Library Science.*
- PILCHER, PALMER C. (1952), B.A., Syracuse. *Assistant Professor of Public Administration.*
- PIQUET, HOWARD S. (1939), B.S., New York; M.A., California; Ph.D., Princeton. *Adjunct Professor of Economics.*
- POSNER, ERNST (1939), Ph.D., Berlin. *Professor of History and Archives Administration.*
- POTTER, PITMAN B. (1944), B.A., M.A., Ph.D., Harvard. *Grozier Professor of International Law.*
- PRIBRAM, KARL (1941), Dr.Jr., Prague. *Adjunct Professor of Economics.*
- RACKLEY, LLOYD E., B.S., M.A., Peabody; Ph.D., George Washington. *Adjunct Professor of Psychology.*
- RENO, WILLIAM L. (1948), B.A., M.A., Princeton; Ph.D., California. *Adjunct Professor of Political Science.*
- ROBERTSON, JEAN C. (1952), B.A., M.A., University of Kansas. *Assistant Professor in the American Language Center.*
- ROBINSON, EDGAR S. (1953), B.A., Amherst; M.A., Ph.D., Columbia. *Assistant Professor of Political Science and Public Administration.*
- ROSEN, S. McKEE (1945), B.A., Minnesota; Ph.D., London. *Adjunct Professor of Public Administration.*
- ROSENBLATT, DAVID (1953), B.S., College of the City of New York. *Associate Professor of Statistics.*
- ROTH, HAROLD H. (1946), B.A., College of the City of New York; M.A., Columbia; M.A., American. *Associate Professor of Political Science and Public Administration.*
- SCHUBERT, LEO (1950), B.S., College of the City of New York; M.S., New York University. *Associate Professor of Chemistry.*
- SCHLZE, HUGO (1947), B.S., American. *Assistant Professor of Physical Education.*
- SECKLER-HUDSON, CATHERYN (1933), B.S., Northwest Missouri State Teachers; M.A., Missouri; Ph.D., American. *Professor of Political Science and Public Administration.*
- SEVERY, ROLLAND D. (1945), B.A., Michigan. *Adjunct Professor of Public Administration.*
- SHARP, SAMUEL L. (1950), LL.M., J.D., Warsaw. *Associate Professor of International Relations and Organization.*
- SHAW, MARGUERITE M. (1953), B.A., Bates; M.A., Columbia. *Assistant Professor.*
- SHEARS, HELEN H. (1952), Graduate, Washington Normal School. *Instructor in the American Language Center.*
- SHENTON, WALTER F. (1925), B.Sc., M.A., Dickinson; Ph.D., Johns Hopkins. *Professor of Mathematics.*
- SHERARD, ALFRED (1948), B.S., Harvard; M.A., Columbia. *Associate Professor of Economics.*
- SHORT, OLIVER C. (1936), B.A., M.A., Pennsylvania; L.H.D., American. *Adjunct Professor of Public Administration.*
- SIMHA, GENEVIEVE (1951), B.A., Antioch; B.S. in L.S., Columbia. *Assistant Professor of Library Science.*

- SITTERLY, BANCROFT W. (1947), B.A., M.A., Ph.D., Princeton. *Professor of Physics and Mathematics.*
- SMITH, GORDON (1947), B.M., Wooster; B.Sc., Mus., M.A., Mills. *Assistant Professor of Music.*
- SMITH, JOHN H. (1947), B.A., Iowa State Teachers College; M.B.A., Ph.D., Chicago. *Professor of Statistics.*
- SOMMER, LOUISE (1952), Ph.D., Basle. *Visiting Professor of Economics.*
- STAHL, O. GLENN, B.A., Evansville; M.A., Wisconsin; Ph.D., New York. *Adjunct Professor of Personnel Administration.*
- STEINER, GEORGE (1951), B.M., M.M., Peabody; B.S., Johns Hopkins. *Assistant Professor of Music.*
- SUMMERFORD, BEN. L. (1950), B.A., American; Ecole Nationale Supérieure des Beaux Arts, Paris. *Instructor in Art.*
- SWARTHOUT, EVELYN (1951), B.M., Kansas; Tobias Matthay Piano School, London. *Assistant Professor of Music.*
- TAYLOR, AMOS E. (1934), B.A., Gettysburg; M.A., Chicago; Ph.D., Pennsylvania. *Adjunct Professor of Economics.*
- TESORO, GEORGE A. (1942), Dr.Jur., Ph.D., Rome. *Adjunct Professor of Economics.*
- TILLER, CARL, B.S., Concordia; M.A., Minnesota. *Adjunct Professor of Political Science and Public Administration.*
- TORRENCE, LOIS E. (1953), A.B., Kansas Wesleyan; M.A., Southern Methodist. *Assistant Professor of Political Science.*
- TRUEBLOOD, CHARLES K. (1949), B.S., Earlham; B.S., Haverford; M.A., Ph.D., Harvard. *Professor of Psychology.*
- ULMER, MELVILLE (1950), B.S., M.A., New York University; Ph.D., Columbia. *Professor of Economics.*
- VAN DER SLICE, AUSTIN (1946), B.A., M.A., Kansas; Ph.D., Pennsylvania. *Professor of Sociology.*
- VAN VECHTEN, C. C. (1947), B.A., M.A., Michigan; Ph.D., Chicago. *Adjunct Professor of Sociology.*
- VON ABELE, RUDOLPH (1947), B.A., Ph.D., Columbia. *Associate Professor of English.* (On leave 1953-1954.)
- WAUGH, KARL T. (), B.A., M.A., Columbia; Ph.D., Harvard. *Adjunct Professor of Psychology.*
- WEIGERT, OSCAR (1938), Dr.Jur., Marburg. *Adjunct Professor of Sociology.*
- WEITZMAN, ELLIS (1946), B.A., Emory; M.A., Creighton; Ph.D., Nebraska. *Professor of Psychology.*
- WESS, HAROLD B. (1953), B.S., College of the City of New York. *Professor of Business Administration and Retailing.*
- WYATT, KATHRYN D. (1945), B.A., Meredith; M.A., Middlebury. *Assistant Professor of Languages.*

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- BROWN, MARY LOUISE (1925), B.A., DePauw; M.A., Michigan. *Emeritus Professor of English.*
- LEINWEBER, C. HENRY (1926), Ph.D., Fribourg. *Emeritus Professor of German.*
- MARSHALL, LEON C. (1936), B.A., LL.D., Ohio Wesleyan; B.A., M.A., Harvard. *Emeritus Professor of Political Economy.*
- STOWELL, ELLERY C. (1922), B.A., Harvard; Docteur en Droit, Paris; Graduate of the Ecole libre des Sciences politiques, Paris. *Emeritus Professor of International Law.*
- TAYLOR, WILLIAM CLARK (1908), LL.B., LL.M., Georgetown. *Emeritus Professor of Law.*
- WOODS, GEORGE B. (1925), B.A., Northwestern; M.A., Ph.D., Harvard. *Emeritus Professor of English.*

PROFESSORIAL LECTURERS AND LECTURERS

- AIKEN, JESSE E., B.A., Duke. *Lecturer in Real Estate.*
- ALLEN, EDWARD L., B.S., Columbia; M.A., Ph.D., American. *Lecturer in Economics.*
- ALPERT, HARRY, B.A., M.A., Ph.D., Columbia. *Professorial Lecturer in Sociology.*

AMES, EDWARD, B.A., M.A., Ph.D., Harvard. *Lecturer in Economics.*

ARNATT, RONALD K., Certificate, Trent College (England). *Lecturer in Music.*

ARNDT, KARL M., Litt.B., Notre Dame. *Professorial Lecturer in Public Administration.*

AUFRICHT, HANS, B.A., Ph.D., Dr.Jur.Sc., Vienna. *Lecturer in International Relations and Organization.*

AYER, A. MCGREGOR, M.A., Munich. *Lecturer in Personnel Management.*

BANES, DANIEL, B.S., M.S., Chicago; Ph.D., Georgetown. *Lecturer in Chemistry.*

BARCY, LEE M., B.A., Michigan. *Lecturer in Sales Management.*

BAUM, ROBERT D., A.B., Williams; M.A., Ph.D., Columbia. *Lecturer in International Relations and Organization.*

BEARD, CAMPBELL, B.A., M.A., Texas. *Lecturer in Education.*

BEARDSLEY, KATHERINE P., B.S., Beloit; M.A., Smith; Ph.D., Columbia. *Lecturer in Psychology.*

BECKERMAN, LAWRENCE, B.A., Brooklyn College; LL.B., George Washington. *Lecturer in Communication.*

BENNETT, WILMER F., B.S., Wilson; M.A., Columbia. *Lecturer in Education.*

BERNHARD, RUSSELL S., B.S., M.A., Northwestern; LL.B., Harvard. *Professorial Lecturer in Transportation.*

BIEN, V. T. H., B.S., Massachusetts Institute of Technology. *Lecturer in Real Estate.*

BIGMAN, STANLEY K., B.A., College of the City of New York; M.A., Columbia. *Lecturer in Sociology.*

BINDER, SIDNEY, B.A., College of the City of New York. *Lecturer in Statistics.*

BLACKWELL, DAVID, A.B., A.M., Ph.D., Illinois. *Lecturer in Mathematics.*

BORDLEY, ROBERT, B.A., Princeton. *Lecturer in Communication.*

BORGEN, KENNETH P., B.S., M.A., American. *Lecturer in Public Administration.*

BREITHAUP, HARRY J., B.A., Roanoke College; M.A., Washington and Lee University; J.D., George Washington. *Professorial Lecturer in Law.*

BRESS, DAVID G., B.S., Virginia; LL.B., Harvard. *Professorial Lecturer in Law.*

BROOKS, DAVID, B.C.S., M.C.S., Benjamin Franklin University; C.P.A., District of Columbia. *Lecturer in Accounting.*

BROOKS, GEORGE W., B.A., Yale; M.A., Brown. *Professorial Lecturer in Economics.*

BROWN, RICHARD G., B.A., B.S., University of Florida; M.A., Ph.D., Northwestern. *Lecturer in Public Administration.*

BROWNE, WILLIAM, B.J., Missouri. *Lecturer in Communication.*

BROWNELL, ROBERT M. *Lecturer in Chemistry.*

BRYAN, ERNEST, A.B., Syracuse; A.M., George Washington; Ph.D., American. *Lecturer in Public Administration.*

BULL, LOUISE H., B.A., M.A., Michigan. *Lecturer in Education.*

BURK, MONROE, B.S.S., College of the City of New York; M.B.A., Harvard; Ph.D., American. *Lecturer in Economics.*

BYHAM, CARL L., B.A., M.A., American. *Lecturer in Statistics.*

CALLAGHAN, JOHN, B.S., Fordham. *Lecturer in Communication.*

CAMINITA, LUDWIG, JR., B.S., M.A., George Washington. *Professorial Lecturer in Public Relations.*

CARR, HAL N., B.S., Texas A. and M. *Lecturer in Business Management.*

CHAMBERS, BERNIECF B., B.A., Maryland; M.A., George Peabody. *Lecturer in Education.*

CLARKE, JOHN M., B.S., M.A., American. *Lecturer in Public Administration.*

CLEMENTS, J. FRANK, B.A., Texas. *Lecturer in Retailing.*

COHEN, SHERMAN S., B.A., LL.B., Columbia; LL.M., New York. *Lecturer in Business Administration.*

COLKET, MEREDITH B., B.A., M.A., Haverford. *Lecturer in History.*

COOPER, JOSEPH D., B.A., George Washington; M.A., Ph.D., American. *Lecturer in Political Science.*

CORNSWEET, ALBERT G., Ph.B., Brown; B.A., M.A., Oxford; Ph.D., North Carolina. *Professorial Lecturer in Psychology.*

- CORSON, JOHN JAY, B.A., M.S., Ph.D., Virginia. *Professorial Lecturer in Sociology.*
- D'ALESSANDRO, ALFRED, B.C.B., LL.B., Northeastern; M.B.A., Boston; M.A., Harvard; C.P.A., State of Massachusetts. *Professorial Lecturer in Accounting.*
- DALY, J. HARVEY, B.A., Notre Dame. *Lecturer in Personnel Management.*
- DAVID, LEO, B.A., M.B.A., Harvard. *Lecturer in Real Estate.*
- DAVIDOFF, MELVIN D., B.S., M.S., Ph.D., Purdue. *Professorial Lecturer in Political Science.*
- DAVIS, DAVID M., B.M. Ed., Northwestern; M.S., Pennsylvania. *Lecturer in Communication.*
- DAVIS, PHILIP, S.B., Ph.D., Harvard. *Lecturer in Mathematics.*
- DAVISON, W. PHILLIPS, A.B., Princeton; M.A., Columbia. *Lecturer in Public Administration.*
- DEAN, BURTON V., B.S., Northwestern; M.A., Columbia; Ph.D., Illinois. *Lecturer in Mathematics.*
- DE ROCHEFORT, NICHOLAS, lic., Paris. *Professorial Lecturer in Political Science.*
- DOBROW, LAWRENCE, B.A., New York. *Lecturer in Advertising.*
- DODDER, BERNARD T., B.S., Oklahoma A. and M.; M.S., Iowa State. *Professorial Lecturer in Insurance.*
- DOUGLAS, FRANCIS P., B.A., Washington University. *Professorial Lecturer in Journalism.*
- DOZER, DONALD M., B.A., M.A., Ph.D., Harvard. *Lecturer in International Relations and Organization.*
- DRAIN, RICHARD D., B.A., LL.B., Yale; LL.M., George Washington. *Lecturer in Law.*
- DREW-BEAR, ROBERT G., B.S., M.B.A., Harvard. *Lecturer in Marketing.*
- DUNHAM, FRANKLIN, Litt.D., St. Bonaventure. *Lecturer in Television and Radio.*
- DVORAK, BEATRICE J., B.A., M.A., Ph.D., Minnesota. *Lecturer in Psychology.*
- EBER, MANUEL, B.A., Rochester; M.A., Chicago. *Lecturer in Economics.*
- ECKSTEIN, ALEXANDER, B.S., M.S., California. *Lecturer in Economics.*
- EDELSON, ALFRED H., B.S., Roanoke College. *Lecturer in Advertising.*
- EDMOND, LESTER E., B.B.A., College of the City of New York; M.A., Ph.D., Harvard. *Lecturer in History.*
- EGBERT, LAWRENCE D., B.A., Michigan; LL.D., University of Paris.
- EISENHART, CHURCHILL, B.A., M.A., Princeton; Ph.D., London. *Lecturer in Statistics.*
- ELLIOTT, HENRY H., B.S., Wharton School of Finance and Commerce; LL.B., George Washington. *Lecturer in Taxation.*
- ENDACOTT, JOHN L., B.A., M.A., Kansas. *Professorial Lecturer in Psychology.*
- EPSTEIN, FRITZ T., Ph.D., Berlin. *Lecturer in History.*
- EPSTEIN, LEON, A.B., M.A., Vanderbilt; Ph.D., Peabody; M.D., Tennessee. *Lecturer in Psychology.*
- EVANS, ELIZABETH TAYLOR, B.A., University of Maine; M.A., New York; C.P.A., State of Maine.
- EVANS, WILMOTH D., B.S., Clarkson. *Lecturer in Statistics.*
- FIELD, STANLEY, B.A., Brooklyn. *Professorial Lecturer in Television and Radio.*
- FISHER, PAUL, J.D., Vienna. *Lecturer in Economics.*
- FLETCHER, LLOYD W., JR., B.S., Texas; J.D., George Washington. *Professorial Lecturer in Business Law.*
- FORS, EDWIN C., B.A., Harvard; C.P.A., District of Columbia. *Professorial Lecturer in Accounting.*
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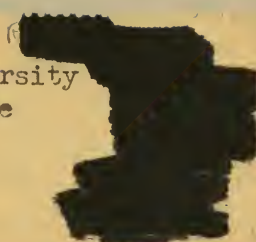
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